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jc500 U.S. PTO
09/333534
06/14/99

June 14, 1999

jc408 U.S. PTO
06/14/99

Box Patent Application

Assistant Commissioner for Patents
Washington, D.C. 20231

Re: U.S. Non-Provisional Utility Patent Application
Application No.: To Be Assigned
Filed: Herewith
For: **Nucleic Acid Molecules and Other Molecules Associated with Plants**
Inventors: Timothy W. CONNER *et al.*
Atty. Docket: 38-21(15404)B

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

1. Utility Patent Application Transmittal (PTO/SB/05);

2. Form PTO-1082 (in duplicate);

3. U.S. Utility Patent Application entitled:

Nucleic Acid Molecules and Other Molecules Associated with Plants

and naming as inventors:

Timothy W. CONNER and Yijun G. RUAN

the application consisting of:

a. A specification containing:

(i) 89 pages of a description prior to the claims;

(ii) 2 pages of claims (7 claims);

(iii) a one (1) page abstract; and

(iv) 9,015 pages of a sequence listing;

4. A CD-ROM containing the sequence listing;

5. Statement Regarding Sequence Submission;

6. Information Disclosure Statement;

7. Form PTO-1449 (3 pages), with 8 accompanying documents;

8. Facsimile copy of original Combined Declaration and Power of Attorney for Patent Application, executed by Timothy W. Conner;

9. Facsimile copy of original Combined Declaration and Power of Attorney for Patent Application, executed by Yijun G. Ruan;

10. Howrey & Simon Check No. 311677 in the amount of $760.00 to cover the basic filing fee; and

11. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

In accordance with 37 C.F.R. § 1.821(f), the paper copy of the sequence listing and the computer readable copy of the sequence listing submitted herewith in the above application are the same.

Respectfully submitted,

David R. Marsh (Reg. No. 41,408)

Enclosures

HOWREY & SIMON

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PTO/SB/05 (2/98)
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	38-21(15404)B
First Named Inventor or Application Identifier	CONNER
Title	Nucleic Acid Molecules and Other Molecules Associated with Plants
Express Mail Label No.	

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

1. [X] *Fee Transmittal Form (Form PTO-1082)
(Submit an original and a duplicate for fee processing)

2. [X] Specification [*Total Pages* 92]
(preferred arrangement set forth below)
- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R&D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claims
- Abstract of the Disclosure

3. [] Drawing(s) *(35 USC 113)* [*Total Sheets*]

4. Oath or Declaration [*Total Pages* 6]
a. [X] Newly executed (original or copy)
b. [] Copy from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 17 completed)
[Note Box 5 below]
i. [] DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

5. [] Incorporation By Reference *(useable if Box 4b is checked)*
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.

6. [] Microfiche Computer Program *(Appendix)*

7. Nucleotide and/or Amino Acid Sequence Submission
(if applicable, all necessary)
a. [X] Computer Readable Copy
b. [X] Paper Copy (identical to computer copy)
c. [X] Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

8. [] Assignment Papers (cover sheet & document(s))
9. [] 37 CFR 3.73(b) Statement *(when there is an assignee)* [] Power of Attorney
10. [] English Translation Document *(if applicable)*
11. [X] Information Disclosure Statement (IDS)/PTO-1449 [X] Copies of IDS Citations
12. [] Preliminary Amendment
13. [X] Return Receipt Postcard (MPEP 503) (Two)
(should be specifically itemized)
14. [] *Small Entity Statement(s) [] Statement filed in prior application, Status still proper and desired
15. [] Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. [] Other:

*NOTE FOR ITEMS 1 & 14: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28)

17. **If a CONTINUING APPLICATION**, *check appropriate box and supply the requisite information:*
[] Continuation [] Divisional [] Continuation-in-part (CIP) of prior application No: /
Prior Application Information: Examiner: Group/Art Unit:

18. CORRESPONDENCE ADDRESS

[] *Customer Number or Bar Code Label*
(Insert Customer No. or Attach bar code label here)
or [X] *Correspondence address below*

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Signature	Lawrence M. Lavin Jr.	Date	June 14, 1999

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231 DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS SEND TO Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

vv David R. Marsh 41,408

NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH PLANTS

Field of the Invention

The present invention is in the field of plant biochemistry. More specifically the invention relates to nucleic acid molecules that encode proteins and fragments of proteins produced in plant cells, in particular, *Arabidopsis thaliana* plants. The invention also relates to proteins and fragments of proteins so encoded and antibodies capable of binding the proteins. The invention also relates to methods of using the nucleic acid molecules, proteins and fragments of proteins.

Background of the Invention

I. EXPRESSED SEQUENCE TAG NUCLEIC ACID MOLECULES

Expressed sequence tags, or ESTs, are short sequences of randomly selected clones from a cDNA (or complementary DNA) library which are representative of the cDNA inserts of these randomly selected clones. McCombie, *et al., Nature Genetics, 1:*124-130 (1992); Kurata, *et al., Nature Genetics, 8:* 365-372 (1994); Okubo, *et al., Nature Genetics, 2:* 173-179 (1992), all of which references are incorporated herein in their entirety.

Using conventional methodologies, cDNA libraries can be constructed from the mRNA (messenger RNA) of a given tissue or organism using poly dT primers and reverse transcriptase (Efstratiadis, *et al.*, *Cell 7*:279-288 (1976), the entirety of which is herein incorporated by reference; Higuchi, *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 73*:3146-3150 (1976), the entirety of which is herein incorporated by reference; Maniatis, *et al.*, *Cell 8*:163 (1976) the entirety of which is herein incorporated by reference; Land, *et al.*, *Nucleic Acids Res. 9*:2251-2266 (1981), the entirety of which is herein incorporated by

reference; Okayama, *et al.*, *Mol. Cell. Biol. 2*:161-170 (1982), the entirety of which is herein incorporated by reference; Gubler, *et al.*, *Gene 25*:263 (1983), the entirety of which is herein incorporated by reference).

Several methods may be employed to obtain full-length cDNA constructs. For example, terminal transferase can be used to add homopolymeric tails of dC residues to the free 3' hydroxyl groups (Land, *et al.*, *Nucleic Acids Res. 9*:2251-2266 (1981), the entirety of which is herein incorporated by reference). This tail can then be hybridized by a poly dG oligo which can act as a primer for the synthesis of full length second strand cDNA. Okayama and Berg, report a method for obtaining full length cDNA constructs. This method has been simplified by using synthetic primer-adapters that have both homopolymeric tails for priming the synthesis of the first and second strands and restriction sites for cloning into plasmids (Coleclough, *et al.*, *Gene 34*:305-314 (1985), the entirety of which is herein incorporated by reference) and bacteriophage vectors (Krawinkel, *et al.*, *Nucleic Acids Res. 14*:1913 (1986), the entirety of which is herein incorporated by reference; and Han, *et al.*, *Nucleic Acids Res. 15*:6304 (1987), the entirety of which is herein incorporated by reference).

These strategies have been coupled with additional strategies for isolating rare mRNA populations. For example, a typical mammalian cell contains between 10,000 and 30,000 different mRNA sequences. Davidson, *Gene Activity in Early Development*, 2nd ed., Academic Press, New York (1976). The number of clones required to achieve a given probability that a low-abundance mRNA will be present in a cDNA library is N = (ln(1-P))/(ln(1-1/n)) where N is the number of clones required, P is the probability desired, and 1/n is the fractional proportion of the total mRNA that is represented by a single rare mRNA (Sambrook, *et al.*, *Molecular Cloning: A Laboratory Manual*, 2nd ed., Cold Spring Harbor Laboratory Press (1989), the entirety of which is herein incorporated by reference.).

A method to enrich preparations of mRNA for sequences of interest is to fractionate by size. One such method is to fractionate by electrophoresis through an agarose gel (Pennica, *et al.*, *Nature 301*:214-221 (1983), the entirety of which is herein incorporated by reference). Another such method employs sucrose gradient centrifugation in the presence of an agent, such as methylmercuric hydroxide, that denatures secondary structure in RNA (Schweinfest, *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 79*:4997-5000 (1982), the entirety of which is herein incorporated by reference).

A frequently adopted method is to construct equalized or normalized cDNA libraries (Ko, *Nucleic Acids Res. 18*:5705-5711 (1990), the entirety of which is herein incorporated by reference; Patanjali, S. R. *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 88*:1943-1947 (1991), the entirety of which is herein incorporated by reference). Typically, the cDNA population is normalized by subtractive hybridization. Schmid, *et al.*, *J. Neurochem. 48*:307-312 (1987) the entirety of which is herein incorporated by reference; Fargnoli, *et al.*, *Anal. Biochem. 187*:364-373 (1990) the entirety of which is herein incorporated by reference; Travis, *et al.*, *Proc. Natl. Acad. Sci (U.S.A.) 85*:1696-1700 (1988) the entirety of which is herein incorporated by reference; Kato, *Eur. J. Neurosci. 2*:704 (1990); and Schweinfest, *et al.*, *Genet. Anal. Tech. Appl. 7*:64 (1990), the entirety of which is herein incorporated by reference. Subtraction represents another method for reducing the population of certain sequences in the cDNA library. Swaroop, *et al.*, *Nucleic Acids Res. 19*:1954 (1991), the entirety of which is herein incorporated by reference.

ESTs can be sequenced by a number of methods. Two basic methods may be used for DNA sequencing, the chain termination method of Sanger *et al., Proc. Natl. Acad. Sci. (U.S.A.) 74:* 5463-5467 (1977), the entirety of which is herein incorporated by reference and the chemical degradation method of Maxam and Gilbert, *Proc. Nat. Acad. Sci. (U.S.A.) 74:* 560-564 (1977), the entirety of which is herein incorporated by reference. Automation and advances in technology such as the replacement of

radioisotopes with fluorescence-based sequencing have reduced the effort required to sequence DNA (Craxton, *Methods, 2:* 20-26 (1991), the entirety of which is herein incorporated by reference; Ju *et al., Proc. Natl. Acad. Sci. (U.S.A.) 92:* 4347-4351 (1995), the entirety of which is herein incorporated by reference; Tabor and Richardson, *Proc. Natl. Acad. Sci. (U.S.A.) 92:* 6339-6343 (1995), the entirety of which is herein incorporated by reference). Automated sequencers are available from, for example, Pharmacia Biotech, Inc., Piscataway, New Jersey (Pharmacia ALF), LI-COR, Inc., Lincoln, Nebraska (LI-COR 4,000) and Millipore, Bedford, Massachusetts (Millipore BaseStation).

In addition, advances in capillary gel electrophoresis have also reduced the effort required to sequence DNA and such advances provide a rapid high resolution approach for sequencing DNA samples (Swerdlow and Gesteland, *Nucleic Acids Res. 18*:1415-1419 (1990); Smith, *Nature 349*:812-813 (1991); Luckey *et al.*, *Methods Enzymol. 218*:154-172 (1993); Lu *et al.*, *J. Chromatog. A. 680*:497-501 (1994); Carson *et al.*, *Anal. Chem. 65*:3219-3226 (1993); Huang *et al.*, *Anal. Chem. 64*:2149-2154 (1992); Kheterpal *et al.*, *Electrophoresis 17*:1852-1859 (1996); Quesada and Zhang, *Electrophoresis 17*:1841-1851 (1996); Baba, *Yakugaku Zasshi 117*:265-281 (1997), all of which are herein incorporated by reference in their entirety).

ESTs longer than 150 bases have been found to be useful for similarity searches and mapping. (Adams, *et al.*, *Science 252*:1651-1656 (1991), herein incorporated by reference.) EST sequences normally range from 150-450 bases. This is the length of sequence information that is routinely and reliably generated using single run sequence data. Typically, only single run sequence data is obtained from the cDNA library, Adams, *et al.*, *Science 252*:1651-1656 (1991). Automated single run sequencing typically results in an approximately 2-3% error or base ambiguity rate. (Boguski, *et al.*, *Nature Genetics, 4*:332-333 (1993), the entirety of which is herein incorporated by reference).

EST databases have been constructed or partially constructed from, for example, *C. elegans* (McCombrie, *et al.*, *Nature Genetics 1*:124-131 (1992), human liver cell line HepG2 (Okubo, *et al.*, *Nature Genetics 2*:173-179 (1992)), human brain RNA (Adams, *et al.*, *Science 252*:1651-1656 (1991); Adams, *et al.*, *Nature 355*:632-635 (1992)), *Arabidopsis,* (Newman, *et al.*, *Plant Physiol.* 106:1241-1255 (1994)); and rice (Kurata, *et al.*, *Nature Genetics 8*:365-372 (1994)).

II. SEQUENCE COMPARISONS

A characteristic feature of a protein or DNA sequence is that it can be compared with other known protein or DNA sequences. Sequence comparisons can be undertaken by determining the similarity of the test or query sequence with sequences in publicly available or propriety databases ("similarity analysis") or by searching for certain motifs ("intrinsic sequence analysis")(e.g. *cis* elements)(Coulson, *Trends in Biotechnology, 12:* 76-80 (1994), the entirety of which is herein incorporated by reference; Birren, *et al., Genome Analysis, 1*: 543-559 (1997), the entirety of which is herein incorporated by reference).

Similarity analysis includes database search and alignment. Examples of public databases include the DNA Database of Japan (DDBJ)(http://www.ddbj.nig.ac.jp/); Genebank (http://www.ncbi.nlm.nih.gov/web/Genbank/Index.htlm); and the European Molecular Biology Laboratory Nucleic Acid Sequence Database (EMBL) (http://www.ebi.ac.uk/ebi_docs/embl_db.html). A number of different search algorithms have been developed, one example of which are the suite of programs referred to as BLAST programs. There are five implementations of BLAST, three designed for nucleotide sequences queries (BLASTN, BLASTX, and TBLASTX) and two designed for protein sequence queries (BLASTP and TBLASTN) (Coulson, *Trends in Biotechnology, 12:* 76-80 (1994); Birren, *et al., Genome Analysis, 1:* 543-559 (1997)).

BLASTN takes a nucleotide sequence (the query sequence) and its reverse complement and searches them against a nucleotide sequence database. BLASTN was designed for speed, not maximum sensitivity, and may not find distantly related coding sequences. BLASTX takes a nucleotide sequence, translates it in three forward reading frames and three reverse complement reading frames, and then compares the six translations against a protein sequence database. BLASTX is useful for sensitive analysis of preliminary (single-pass) sequence data and is tolerant of sequencing errors (Gish and States, *Nature Genetics, 3:* 266-272 (1993), the entirety of which is herein incorporated by reference). BLASTN and BLASTX may be used in concert for analyzing EST data (Coulson, *Trends in Biotechnology, 12:* 76-80 (1994); Birren, *et al., Genome Analysis, 1:* 543-559 (1997)).

Given a coding nucleotide sequence and the protein it encodes, it is often preferable to use the protein as the query sequence to search a database because of the greatly increased sensitivity to detect more subtle relationships. This is due to the larger alphabet of proteins (20 amino acids) compared with the alphabet of nucleic acid sequences (4 bases), where it is far easier to obtain a match by chance. In addition, with nucleotide alignments, only a match (positive score) or a mismatch (negative score) is obtained, but with proteins, the presence of conservative amino acid substitutions can be taken into account. Here, a mismatch may yield a positive score if the non-identical residue has physical/chemical properties similar to the one it replaced. Various scoring matrices are used to supply the substitution scores of all possible amino acid pairs. A general purpose scoring system is the BLOSUM62 matrix (Henikoff and Henikoff, *Proteins, 17:* 49-61 (1993), the entirety of which is herein incorporated by reference), which is currently the default choice for BLAST programs. BLOSUM62 is tailored for alignments of moderately diverged sequences and thus may not yield the best results under all conditions. Altschul, *J. Mol. Biol. 36:* 290-300 (1993), the entirety of which is herein incorporated by reference, uses a combination of three matrices to cover all

contingencies. This may improve sensitivity, but at the expense of slower searches. In practice, a single BLOSUM62 matrix is often used but others (PAM40 and PAM250) may be attempted when additional analysis is necessary. Low PAM matrices are directed at detecting very strong but localized sequence similarities, whereas high PAM matrices are directed at detecting long but weak alignments between very distantly related sequences.

Homologues in other organisms are available that can be used for comparative sequence analysis. Multiple alignments are performed to study similarities and differences in a group of related sequences. CLUSTAL W is a multiple sequence alignment package available that performs progressive multiple sequence alignments based on the method of Feng and Doolittle, *J. Mol. Evol.* 25: 351-360 (1987), the entirety of which is herein incorporated by reference. Each pair of sequences is aligned and the distance between each pair is calculated; from this distance matrix, a guide tree is calculated, and all of the sequences are progressively aligned based on this tree. A feature of the program is its sensitivity to the effect of gaps on the alignment; gap penalties are varied to encourage the insertion of gaps in probable loop regions instead of in the middle of structured regions. Users can specify gap penalties, choose between a number of scoring matrices, or supply their own scoring matrix for both the pairwise alignments and the multiple alignments. CLUSTAL W for UNIX and VMS systems is available at: ftp.ebi.ac.uk. Another program is MACAW (Schuler *et al.*, *Proteins, Struct. Func. Genet, 9:*180-190 (1991), the entirety of which is herein incorporated by reference, for which both Macintosh and Microsoft Windows versions are available. MACAW uses a graphical interface, provides a choice of several alignment algorithms, and is available by anonymous ftp at: ncbi.nlm.nih.gov (directory/pub/macaw).

Sequence motifs are derived from multiple alignments and can be used to examine individual sequences or an entire database for subtle patterns. With motifs, it is sometimes possible to detect distant relationships that may not be demonstrable based on

comparisons of primary sequences alone. Currently, the largest collection of sequence motifs in the world is PROSITE (Bairoch and Bucher, *Nucleic Acid Research, 22:* 3583-3589 (1994), the entirety of which is herein incorporated by reference.) PROSITE may be accessed via either the ExPASy server on the World Wide Web or anonymous ftp site. Many commercial sequence analysis packages also provide search programs that use PROSITE data.

A resource for searching protein motifs is the BLOCKS E-mail server developed by S. Henikoff, *Trends Biochem Sci., 18:*267-268 (1993), the entirety of which is herein incorporated by reference; Henikoff and Henikoff, *Nucleic Acid Research, 19:*6565-6572 (1991), the entirety of which is herein incorporated by reference; Henikoff and Henikoff, *Proteins, 17:* 49-61 (1993). BLOCKS searches a protein or nucleotide sequence against a database of protein motifs or "blocks." Blocks are defined as short, ungapped multiple alignments that represent highly conserved protein patterns. The blocks themselves are derived from entries in PROSITE as well as other sources. Either a protein or nucleotide query can be submitted to the BLOCKS server; if a nucleotide sequence is submitted, the sequence is translated in all six reading frames and motifs are sought in these conceptual translations. Once the search is completed, the server will return a ranked list of significant matches, along with an alignment of the query sequence to the matched BLOCKS entries.

Conserved protein domains can be represented by two-dimensional matrices, which measure either the frequency or probability of the occurrences of each amino acid residue and deletions or insertions in each position of the domain. This type of model, when used to search against protein databases, is sensitive and usually yields more accurate results than simple motif searches. Two popular implementations of this approach are profile searches (such as GCG program ProfileSearch) and Hidden Markov Models (HMMs)(Krough *et al., J. Mol. Biol. 235*:1501-1531 (1994); Eddy, *Current Opinion in Structural Biology 6:*361-365 (1996), both of which are herein incorporated

by reference in their entirety). In both cases, a large number of common protein domains have been converted into profiles, as present in the PROSITE library, or HHM models, as in the Pfam protein domain library (Sonnhammer *et al., Proteins 28*:405-420 (1997), the entirety of which is herein incorporated by reference). Pfam contains more than 500 HMM models for enzymes, transcription factors, signal transduction molecules, and structural proteins. Protein databases can be queried with these profiles or HMM models, which will identify proteins containing the domain of interest. For example, HMMSW or HMMFS, two programs in a public domain package called HMMER (Sonnhammer *et al., Proteins 28*:405-420 (1997)) can be used.

PROSITE and BLOCKS represent collected families of protein motifs. Thus, searching these databases entails submitting a single sequence to determine whether or not that sequence is similar to the members of an established family. Programs working in the opposite direction compare a collection of sequences with individual entries in the protein databases. An example of such a program is the Motif Search Tool, or MoST (Tatusov *et al. Proc. Natl. Acad. Sci. 91:* 12091-12095 (1994), the entirety of which is herein incorporated by reference.) On the basis of an aligned set of input sequences, a weight matrix is calculated by using one of four methods (selected by the user); a weight matrix is simply a representation, position by position in an alignment, of how likely a particular amino acid will appear. The calculated weight matrix is then used to search the databases. To increase sensitivity, newly found sequences are added to the original data set, the weight matrix is recalculated, and the search is performed again. This procedure continues until no new sequences are found.

Summary of the Invention

The present invention provides a substantially purified nucleic acid molecule that encodes an *Arabidopsis thaliana* protein or fragment thereof comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 18718.

The present invention also provides one or more substantially purified nucleic acid molecules comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO:18718 or complements thereof.

The present invention also provides a substantially purified *Arabidopsis thaliana* protein or fragment thereof, wherein said *Arabidopsis thaliana* protein is encoded by a nucleic acid molecule that comprises a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 18718.

The present invention further provides a substantially purified protein, peptide, or fragment thereof encoded by a nucleic acid sequence which specifically hybridizes to a nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of a complement of SEQ ID NO: 1 through SEQ ID NO:18718.

The present invention further provides a substantially purified antibody capable of specifically binding to a protein or fragment thereof encoded by a nucleic acid sequence which specifically hybridizes to a nucleic acid molecule having a nucleic acid sequence selected from the group consisting of a complement of SEQ ID NO:1 through SEQ ID NO:18718.

The present invention also provides a transformed plant transformed to contain a nucleic acid molecule which comprises: (A) an exogeneous promoter region which functions in plant cells to cause the production of an mRNA molecule; which is linked to (B) a structural nucleic acid molecule, wherein said structural nucleic acid molecule comprises a nucleic acid molecule that encodes a protein, peptide, or fragment thereof which hybridizes to a nucleic acid sequence selected from the group consisting of a complement of SEQ ID NO:1 through SEQ ID NO:18718 expressed in an effective amount to produce a desirable agronomic effect; which is linked to (C) a 3' non-translated sequence that functions in plant cells to cause the termination of transcription and the addition of polyadenylated ribonucleotides to the 3' end of the mRNA sequence.

The present invention also provides a transformed plant cell containing a nucleic acid molecule whose non-transcribed strand encodes a protein or fragment thereof, wherein the transcribed strand of said nucleic acid is complementary to a nucleic acid molecule that encodes a protein or fragment thereof. The present invention also provides bacterial, viral, microbial, and plant cells comprising a nucleic acid molecule of the present invention

The present invention also provides a method of producing a plant containing one or more proteins encoded by sequences comprising SEQ ID NO:1 or complement thereof through SEQ ID NO:18718 or complements thereof, expressed in a sufficient amount and/or fashion to produce a desirable agronomic effect.

In accomplishing the foregoing, there is provided, in accordance with one aspect of the present invention, methods of producing genetically transformed plants, comprising the steps of:

(a) inserting into the genome of a plant cell a recombinant, double-stranded DNA molecule comprising

(i) a promoter which functions in plant cells to cause the production of an RNA sequence,

(ii) a structural DNA sequence that causes the production of an RNA sequence which encodes a desired protein.

(iii) a 3' non-translated DNA sequence which functions in plant cells to cause the addition of polyadenylated nucleotides to the 3' end of RNA sequence; where the promoter is homologous or heterologous with respect to the coding sequence and adapted to cause sufficient expression of a protein in desired plant tissues to enhance the agronomic utility of a plant transformed with said gene.

(b) obtaining a transformed plant cell with said nucleic acid molecule that encodes one or more proteins, wherein said nucleic acid molecule is transcribed and results in expression of said protein(s); and

(c) regenerating from the transformed plant cell a genetically transformed plant

The present invention also encompasses differentiated plants, seeds, and progeny comprising said transformed plant cells and which exhibit novel properties of agronomic significance.

The present invention also provides a method of producing a plant containing reduced levels of a protein comprising: (A) transforming a plant cell with a nucleic acid molecule that encodes a protein, wherein said nucleic acid molecule is transcribed and results in co-suppression of endogenous protein synthesis activity, and (B) regenerating plants and producing subsequent progeny from the transformed plant.

The present invention also provides a method of determining an association between a polymorphism and a plant trait comprising: (A) hybridizing a nucleic acid molecule specific for a polymorphism to genetic material of a plant, wherein said nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO:18718 or complements thereof; and (B) calculating the degree of association between the polymorphism and the plant trait.

The present invention also provides a method of isolating a genetic region, or nucleic acid that encodes a protein or fragment thereof comprising: (A) incubating under conditions permitting nucleic acid hybridization: a marker nucleic acid molecule, preferably an EST, with a complementary nucleic acid molecule obtained from a plant cell or plant tissue; (B) permitting hybridization between said marker nucleic acid molecule, preferably an EST, and said complementary nucleic acid molecule obtained from said plant cell or plant tissue; and (C) isolating said complementary nucleic acid molecule.

The present invention also provides a method for determining a level or pattern in a plant cell of a protein in a plant comprising: (A) incubating, under conditions permitting nucleic acid hybridization, a marker nucleic acid molecule, the marker nucleic acid molecule selected from the group of marker nucleic acid molecules which specifically hybridize to a nucleic acid molecule having the nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 18718 or complements thereof or fragments of either, with a complementary nucleic acid molecule obtained from the plant cell or plant tissue, wherein nucleic acid hybridization between the marker nucleic acid molecule and the complementary nucleic acid molecule obtained from the plant cell or plant tissue permits the detection of an mRNA for the enzyme; (B) permitting hybridization between the marker nucleic acid molecule and the complementary nucleic acid molecule obtained from the plant cell or plant tissue; and (C) detecting the level or pattern of the complementary nucleic acid, wherein the detection of the complementary nucleic acid is predictive of the level or pattern of the protein.

The present invention also provides a method for determining the level or pattern of a protein in a plant cell or plant tissue comprising: (A) incubating under conditions permitting nucleic acid hybridization: a marker nucleic acid molecule, the marker nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO:18718 or complements thereof, with a complementary nucleic acid molecule obtained from a plant cell or plant tissue, wherein nucleic acid hybridization between the marker nucleic acid molecule, and the complementary nucleic acid molecule obtained from the plant cell or plant tissue permits the detection of said protein; (B) permitting hybridization between the marker nucleic acid molecule and the complementary nucleic acid molecule obtained from the plant cell or plant tissue; and (C) detecting the level or pattern of the complementary nucleic acid, wherein the detection of said complementary nucleic acid is predictive of the level or pattern of the protein synthesis.

The present invention also provides a method for determining a level or pattern of a protein in a plant cell or plant tissue which comprises assaying the concentration of a molecule, whose concentration is dependent upon the expression of a gene, the gene having a nucleic acid sequence which specifically hybridizes to a protein marker nucleic acid molecule, the molecule being present in a plant cell or plant tissue, in comparison to the concentration of that molecule present in a plant cell or plant tissue with a known level or pattern of said protein, wherein an assayed concentration of the molecule is compared to the assayed concentration of the molecule in a plant cell or plant tissue with a known level or pattern of said protein.

The present invention also provides a method of determining a mutation in a plant whose presence is predictive of a mutation affecting a level or pattern of a protein comprising the steps: (A) incubating, under conditions permitting nucleic acid hybridization, a marker nucleic acid, the marker nucleic acid selected from the group of marker nucleic acid molecules which specifically hybridize to a nucleic acid molecule consisting of the nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 18718 or complements thereof or fragments of either and a complementary nucleic acid molecule obtained from the plant, wherein nucleic acid hybridization between the marker nucleic acid molecule and the complementary nucleic acid molecule obtained from the plant permits the detection of a polymorphism whose presence is predictive of a mutation affecting the level or pattern of the protein in the plant; (B) permitting hybridization between the marker nucleic acid molecule and the complementary nucleic acid molecule obtained from the plant; and (C) detecting the presence of the polymorphism, wherein the detection of the polymorphism is predictive of the mutation.

The present invention also provides a method for determining a mutation in a plant whose presence is predictive of a mutation affecting the level or pattern of protein synthesis comprising the steps: (A) incubating under conditions permitting nucleic acid

hybridization: a marker nucleic acid molecule, the marker nucleic acid molecule comprising a nucleic acid molecule that is linked to gene, the gene having a nucleic acid sequence which specifically hybridizes to a sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO:18718 and complements thereof, and a complementary nucleic acid molecule obtained from a plant tissue or plant cell of the plant, wherein nucleic acid hybridization between the marker nucleic acid molecule and the complementary nucleic acid molecule obtained from the plant permits the detection of a polymorphism whose presence is predictive of a mutation affecting said level or pattern of a protein synthesis in the plant; (B) permitting hybridization between said marker nucleic acid molecule and said complementary nucleic acid molecule obtained from said plant; and; (C) detecting the presence of the polymorphism, wherein the detection of the polymorphism is predictive of the mutation.

The present invention also provides a method for reducing expression of a protein in a plant cell, the method comprising: growing a transformed plant cell containing a nucleic acid molecule whose non-transcribed strand encodes a protein or fragment thereof, wherein the transcribed strand of said nucleic acid is complementary to a nucleic acid molecule that encodes the protein in said plant cell, and whereby the strand that is complementary to the nucleic acid molecule that encodes the protein reduces or depresses expression of the protein.

The present invention provides *Arabidopsis thaliana* nucleic acid molecules for use as molecular tags to isolate genetic regions (i.e. promoters and flanking sequences), isolate genes, map genes, and determine gene function. The present invention further provides *Arabidopsis thaliana* nucleic acid molecules for use in determining if genes are members of a particular gene family.

The present invention also provides a method of obtaining full length genes using *Arabidopsis thaliana* ESTs or complements thereof or fragments of either.

The present invention also provides a method of isolating promoters and flanking sequences using *Arabidopsis thaliana* ESTs or complements thereof or fragments of either.

The present invention also provides *Arabidopsis thaliana* ESTs or complements thereof or fragments of either for use in marker-assisted breeding programs.

The present invention also provides a method of identifying tissues comprising hybridizing nucleic acids from the tissue with *Arabidopsis thaliana* ESTs or complements thereof or fragments of either.

The present invention also provides a method for production of antibodies targeted against the proteins, peptides, or fragments produced by the disclosed or complements thereof or fragments of either.

The present invention also provides a method for the transformation and regeneration of plants comprising sequences hybridizable to the disclosed ESTs or complements thereof or fragments of either.

The present invention also provides a method of modifying plant protein expression by inserting in a chimeric gene sense or antisense constructs of the *Arabidopsis thaliana* ESTs.

Detailed Description of the Invention

Agents

(a) **Nucleic Acid Molecules**

Agents of the present invention include nucleic acid molecules and more specifically EST nucleic acid molecules or nucleic acid fragment molecules thereof. Fragment EST nucleic acid molecules may encode significant portion(s) of, or indeed most of, the EST nucleic acid molecule. Alternatively, the fragments may comprise smaller oligonucleotides (having from about 15 to about 250 nucleotide residues, and more preferably, about 15 to about 30 nucleotide residues).

A subset of the nucleic acid molecules of the present invention includes nucleic acid molecules that are marker molecules. Another subset of the nucleic acid molecules of the present invention include nucleic acid molecules that encode a protein or fragment thereof. Another subset of the nucleic acid molecules of the present invention are EST molecules.

The term "substantially purified", as used herein, refers to a molecule separated from substantially all other molecules normally associated with it in its native state. More preferably a substantially purified molecule is the predominant species present in a preparation. A substantially purified molecule may be greater than 60% free, preferably 75% free, more preferably 90% free, and most preferably 95% free from the other molecules (exclusive of solvent) present in the natural mixture. The term "substantially purified" is not intended to encompass molecules present in their native state.

The agents of the present invention will preferably be "biologically active" with respect to either a structural attribute, such as the capacity of a nucleic acid to hybridize to another nucleic acid molecule, or the ability of a protein to be bound by antibody (or to compete with another molecule for such binding). Alternatively, such an attribute may be catalytic, and thus involve the capacity of the agent to mediate a chemical reaction or response.

The agents of the present invention may also be recombinant. As used herein, the term recombinant means any agent (e.g. DNA, peptide etc.), that is, or results, however indirect, from human manipulation of a nucleic acid molecule.

It is understood that the agents of the present invention may be labeled with reagents that facilitate detection of the agent (e.g. fluorescent labels (Prober, *et al.*, *Science* 238:336-340 (1987); Albarella *et al.*, EP 144914, chemical labels (Sheldon *et al.*, U.S. Patent 4,582,789; Albarella *et al.*, U.S. Patent 4,563,417, modified bases (Miyoshi *et al.*, EP 119448, all of which are hereby incorporated by reference in their entirety).

It is further understood, that the present invention provides bacterial, viral, microbial, and plant cells comprising the agents of the present invention.

Nucleic acid molecules or fragment thereof of the present invention are capable of specifically hybridizing to other nucleic acid molecules under certain circumstances. As used herein, two nucleic acid molecules are said to be capable of specifically hybridizing to one another if the two molecules are capable of forming an anti-parallel, double-stranded nucleic acid structure. A nucleic acid molecule is said to be the "complement" of another nucleic acid molecule if they exhibit complete complementarity. As used herein, molecules are said to exhibit "complete complementarity" when every nucleotide of one of the molecules is complementary to a nucleotide of the other. Two molecules are said to be "minimally complementary" if they can hybridize to one another with sufficient stability to permit them to remain annealed to one another under at least conventional "low-stringency" conditions. Similarly, the molecules are said to be "complementary" if they can hybridize to one another with sufficient stability to permit them to remain annealed to one another under conventional "high-stringency" conditions. Conventional stringency conditions are described by Sambrook, *et al.*, In: *Molecular Cloning, A Laboratory Manual, 2nd Edition, Cold Spring Harbor Press*, Cold Spring Harbor, New York (1989), and by Haymes, *et al.* In: *Nucleic Acid Hybridization, A Practical Approach*, IRL Press, Washington, DC (1985), the entirety of which is herein incorporated by reference. Departures from complete complementarity are therefore permissible, as long as such departures do not completely preclude the capacity of the molecules to form a double-stranded structure. Thus, in order for an nucleic acid molecule or fragment of the present invention to serve as a primer or probe it need only be sufficiently complementary in sequence to be able to form a stable double-stranded structure under the particular solvent and salt concentrations employed.

Appropriate stringency conditions which promote DNA hybridization are, for example, 6.0 x sodium chloride/sodium citrate (SSC) at about 45°C, followed by a wash

of 2.0 x SSC at 50°C, are known to those skilled in the art or can be found in *Current Protocols in Molecular Biology*, John Wiley & Sons, N.Y. (1989), 6.3.1-6.3.6. For example, the salt concentration in the wash step can be selected from a low stringency of about 2.0 x SSC at 50°C to a high stringency of about 0.2 x SSC at 50°C. In addition, the temperature in the wash step can be increased from low stringency conditions at room temperature, about 22°C, to high stringency conditions at about 65°C. Both temperature and salt may be varied, or either the temperature or the salt concentration may be held constant while the other variable is changed.

In a preferred embodiment, a nucleic acid of the present invention will specifically hybridize to one or more of the nucleic acid molecules set forth in SEQ ID NO: 1 through SEQ ID NO: 18718 or complements thereof under moderately stringent conditions, for example, at about 2.0 x SSC and about 65°C.

In a particularly preferred embodiment, a nucleic acid of the present invention will include those nucleic acid molecules that specifically hybridize to one or more of the nucleic acid molecules set forth in SEQ ID NO:1 through SEQ ID NO: 18718 or complements thereof under high stringency conditions.

In one aspect of the present invention, the nucleic acid molecules of the present invention have one or more of the nucleic acid sequences set forth in SEQ ID NO: 1 through SEQ ID NO:18718 or complements thereof. In another aspect of the present invention, one or more of the nucleic acid molecules of the present invention share between 100% and 90% sequence identity with one or more of the nucleic acid sequences set forth in SEQ ID NO: 1 through SEQ ID NO:18718 or complements thereof. In a further aspect of the present invention, one or more of the nucleic acid molecules of the present invention share between 100% and 95% sequence identity with one or more of the nucleic acid sequences set forth in SEQ ID NO: 1 through SEQ ID NO:18718 or complements thereof. In a more preferred aspect of the present invention, one or more of the nucleic acid molecules of the present invention share between 100% and 98%

sequence identity with one or more of the nucleic acid sequences set forth in SEQ ID NO: 1 through SEQ ID NO:18718 or complements thereof. In an even more preferred aspect of the present invention, one or more of the nucleic acid molecules of the present invention share between 100% and 99% sequence identity with one or more of the sequences set forth in SEQ ID NO: 1 through SEQ ID NO:18718 or complements thereof. In a further, even more preferred aspect of the present invention, one or more of the nucleic acid molecules of the present invention exhibit 100% sequence identity with one or more nucleic acid molecules present within the cDNA libraries LIB9, LIB22, LIB23, LIB24, LIB25, LIB35, and LIB146 (Monsanto Company, St. Louis, Missouri, United States of America).

In a preferred embodiment of the present invention, an *Arabidopsis thaliana* protein or fragment thereof of the present invention is a homologue of another plant protein. In another preferred embodiment of the present invention, an *Arabidopsis thaliana* protein or fragment thereof of the present invention is a homologue of a fungal protein. In another preferred embodiment of the present invention, an *Arabidopsis thaliana* protein or fragment thereof of the present invention is a homologue of mammalian protein. In another preferred embodiment of the present invention, a *Arabidopsis thaliana* protein or fragment thereof of the present invention is a homologue of a bacterial protein. In another preferred embodiment of the present invention, an *Arabidopsis thaliana* protein or fragment thereof of the present invention is a homologue of a maize protein. In another preferred embodiment of the present invention, an *Arabidopsis thaliana* protein or fragment thereof of the present invention is a homologue of a soybean protein.

In a preferred embodiment of the present invention, the nucleic molecule of the present invention encodes an *Arabidopsis thaliana* protein or fragment thereof where an *Arabidopsis thaliana* protein or fragment thereof exhibits a BLAST probability score of greater than 1E-12, preferably a BLAST probability score of between about 1E-30 and

about 1E-12, even more preferably a BLAST probability score of greater than 1E-30 with its homologue.

In another preferred embodiment of the present invention, the nucleic acid molecule encoding an *Arabidopsis thaliana* protein or fragment thereof exhibits a % identity with its homologue of between about 25% and about 40%, more preferably of between about 40 and about 70%, even more preferably of between about 70% and about 90% and even more preferably between about 90% and 99%. In another preferred embodiment, of the present invention, a *Arabidopsis thaliana* protein or fragment thereof exhibits a % identity with its homologue of 100%.

In a preferred embodiment of the present invention, the nucleic molecule of the present invention encodes a *Arabidopsis thaliana* protein or fragment thereof where the *Arabidopsis thaliana* protein exhibits a BLAST score of greater than 120, preferably a BLAST score of between about 1450 and about 120, even more preferably a BLAST score of greater than 1450 with its homologue.

Nucleic acid molecules of the present invention also include non-*Arabidopsis thaliana* homologues. Preferred non-*Arabidopsis thaliana* homologues are selected from the group consisting of alfalfa, soybean, barley, *Brassica*, broccoli, cabbage, citrus, cotton, garlic, oat, oilseed rape, onion, canola, flax, an ornamental plant, maize, pea, peanut, pepper, potato, rice, rye, sorghum, strawberry, sugarcane, sugarbeet, tomato, wheat, poplar, pine, fir, eucalyptus, apple, lettuce, lentils, grape, banana, tea, turf grasses, sunflower, oil palm and *Phaseolus*.

The degeneracy of the genetic code, which allows different nucleic acid sequences to code for the same protein or peptide, is known in the literature. (U.S. Patent No. 4,757,006, the entirety of which is herein incorporated by reference).

In an aspect of the present invention, one or more of the nucleic acid molecules of the present invention differ in nucleic acid sequence from those encoding an *Arabidopsis thaliana* protein or fragment thereof in SEQ ID NO: 1 through SEQ ID NO: 18718 due to

the degeneracy in the genetic code in that they encode the same protein but differ in nucleic acid sequence.

In another further aspect of the present invention, one or more of the nucleic acid molecules of the present invention differ in nucleic acid sequence from those encoding an *Arabidopsis thaliana* protein or fragment thereof in SEQ ID NO: 1 through SEQ ID NO: 18718 due to fact that the different nucleic acid sequences encode a protein having one or more conservative amino acid residues. Examples of conservative substitutions are set forth in Table 1. It is understood that codons capable of coding for such conservative substitutions are known in the art.

Table 1

Original Residue	Conservative Substitutions
Ala	Ser
Arg	Lys
Asn	Gln; His
Asp	Glu
Cys	Ser; Ala
Gln	Asn
Glu	Asp
Gly	Pro
His	Asn; Gln
Ile	Leu; Val
Leu	Ile; Val
Lys	Arg; Gln; Glu
Met	Leu; Ile
Phe	Met; Leu; Tyr
Ser	Thr
Thr	Ser

Trp	Tyr
Tyr	Trp; Phe
Val	Ile; Leu

In a further aspect of the present invention, one or more of the nucleic acid molecules of the present invention differ in nucleic acid sequence from those encoding a *Arabidopsis thaliana* protein or fragment thereof set forth in SEQ ID NO: 1 through SEQ ID NO: 18718 or fragment thereof due to the fact that one or more codons encoding an amino acid has been substituted for a codon that encodes a nonessential substitution of the amino acid originally encoded.

One aspect of the present invention concerns markers that include nucleic acid molecules SEQ ID NO: 1 through SEQ ID NO: 18718 or complements thereof or fragments of either that can act as markers or other nucleic acid molecules of the present invention that can act as markers. Genetic markers of the present invention include "dominant" or "codominant" markers "Codominant markers" reveal the presence of two or more alleles (two per diploid individual) at a locus. "Dominant markers" reveal the presence of only a single allele per locus. The presence of the dominant marker phenotype (e.g., a band of DNA) is an indication that one allele is present in either the homozygous or heterozygous condition. The absence of the dominant marker phenotype (e.g. absence of a DNA band) is merely evidence that "some other" undefined allele is present. In the case of populations where individuals are predominantly homozygous and loci are predominately dimorphic, dominant and codominant markers can be equally valuable. As populations become more heterozygous and multi-allelic, codominant markers often become more informative of the genotype than dominant markers. Marker molecules can be, for example, capable of detecting polymorphisms such as single nucleotide polymorphisms (SNPs).

SNPs are single base changes in genomic DNA sequence. They occur at greater frequency and are spaced with a greater uniformity throughout a genome than other reported forms of polymorphism. The greater frequency and uniformity of SNPs means that there is greater probability that such a polymorphism will be found near or in a genetic locus of interest than would be the case for other polymorphisms. SNPs are located in protein-coding regions and noncoding regions of a genome. Some of these SNPs may result in defective or variant protein expression (e.g., as a results of mutations or defective splicing). Analysis (genotyping) of characterized SNPs can require only a plus/minus assay rather than a lengthy measurement, permitting easier automation.

SNPs can be characterized using any of a variety of methods. Such methods include the direct or indirect sequencing of the site, the use of restriction enzymes (Botstein *et al.*, *Am. J. Hum. Genet. 32*:314-331 (1980), the entirety of which is herein incorporated reference; Konieczny and Ausubel, *Plant J. 4*:403-410 (1993), the entirety of which is herein incorporated by reference), enzymatic and chemical mismatch assays (Myers *et al.*, *Nature 313*:495-498 (1985), the entirety of which is herein incorporated by reference), allele-specific PCR (Newton *et al.*, *Nucl. Acids Res. 17*:2503-2516 (1989), the entirety of which is herein incorporated by reference; Wu *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 86*:2757-2760 (1989), the entirety of which is herein incorporated by reference), ligase chain reaction (Barany, *Proc. Natl. Acad. Sci. (U.S.A.) 88*:189-193 (1991), the entirety of which is herein incorporated by reference), single-strand conformation polymorphism analysis (Labrune *et al.*, *Am. J. Hum. Genet. 48*: 1115-1120 (1991), the entirety of which is herein incorporated by reference), primer-directed nucleotide incorporation assays (Kuppuswami *et al.*, *Proc. Natl. Acad. Sci. USA 88*:1143-1147 (1991), the entirety of which is herein incorporated by reference), dideoxy fingerprinting (Sarkar *et al.*, *Genomics 13*:441-443 (1992), the entirety of which is herein incorporated by reference), solid-phase ELISA-based oligonucleotide ligation assays (Nikiforov *et al.*, *Nucl. Acids Res. 22*:4167-4175 (1994), the entirety of which is herein incorporated by

reference), oligonucleotide fluorescence-quenching assays (Livak *et al.*, *PCR Methods Appl. 4*:357-362 (1995), the entirety of which is herein incorporated by reference), 5'-nuclease allele-specific hybridization TaqMan assay (Livak *et al.*, *Nature Genet. 9*:341-342 (1995), the entirety of which is herein incorporated by reference), template-directed dye-terminator incorporation (TDI) assay (Chen and Kwok, *Nucl. Acids Res. 25*:347-353 (1997), the entirety of which is herein incorporated by reference), allele-specific molecular beacon assay (Tyagi *et al.*, *Nature Biotech. 16*: 49-53 (1998), the entirety of which is herein incorporated by reference), PinPoint assay (Haff and Smirnov, *Genome Res. 7*: 378-388 (1997), the entirety of which is herein incorporated by reference) and dCAPS analysis (Neff *et al.*, *Plant J. 14*:387-392 (1998), the entirety of which is herein incorporated by reference).

Additional markers, such as AFLP markers, RFLP markers and RAPD markers, can be utilized (Walton, *Seed World* 22-29 (July, 1993), the entirety of which is herein incorporated by reference; Burow and Blake, *Molecular Dissection of Complex Traits*, 13-29, Paterson (ed.), CRC Press, New York (1988), the entirety of which is herein incorporated by reference). DNA markers can be developed from nucleic acid molecules using restriction endonucleases, the PCR and/or DNA sequence information. RFLP markers result from single base changes or insertions/deletions. These codominant markers are highly abundant in plant genomes, have a medium level of polymorphism and are developed by a combination of restriction endonuclease digestion and Southern blotting hybridization. CAPS are similarly developed from restriction nuclease digestion but only of specific PCR products. These markers are also codominant, have a medium level of polymorphism and are highly abundant in the genome. The CAPS result from single base changes and insertions/deletions.

Another marker type, RAPDs, are developed from DNA amplification with random primers and result from single base changes and insertions/deletions in plant genomes. They are dominant markers with a medium level of polymorphisms and are

highly abundant. AFLP markers require using the PCR on a subset of restriction fragments from extended adapter primers. These markers are both dominant and codominant are highly abundant in genomes and exhibit a medium level of polymorphism.

SSRs require DNA sequence information. These codominant markers result from repeat length changes, are highly polymorphic and do not exhibit as high a degree of abundance in the genome as CAPS, AFLPs and RAPDs, SNPs also require DNA sequence information. These codominant markers result from single base substitutions. They are highly abundant and exhibit a medium of polymorphism (Rafalski *et al.*, In: *Nonmammalian Genomic Analysis*, Birren and Lai (ed.), Academic Press, San Diego, CA, pp. 75-134 (1996), the entirety of which is herein incorporated by reference). It is understood that a nucleic acid molecule of the present invention may be used as a marker.

A PCR probe is a nucleic acid molecule capable of initiating a polymerase activity while in a double-stranded structure with another nucleic acid. Various methods for determining the structure of PCR probes and PCR techniques exist in the art. Computer generated searches using programs such as Primer3 (www-genome.wi.mit.edu/cgi-bin/primer/primer3.cgi), STSPipeline (www-genome.wi.mit.edu/cgi-bin/www-STS_Pipeline), or GeneUp (Pesole *et al.*, *BioTechniques 25*:112-123 (1998) the entirety of which is herein incorporated by reference), for example, can be used to identify potential PCR primers.

It is understood that a fragment of one or more of the nucleic acid molecules of the present invention may be a probe and specifically a PCR probe.

(b) **Protein and Peptide Molecules**

A class of agents comprises one or more of the protein or peptide molecules encoded by SEQ ID NO: 1 through SEQ ID NO:18718 or one or more of the protein or fragment thereof or peptide molecules encoded by other nucleic acid agents of the present invention. As used herein, the term "protein molecule" or "peptide molecule" includes

any molecule that comprises five or more amino acids. It is well know in the art that proteins may undergo modification, including post-translational modifications, such as, but not limited to, disulfide bond formation, glycosylation, phosphorylation, or oligomerization. Thus, as used herein, the term "protein molecule" or "peptide molecule" includes any protein molecule that is modified by any biological or non-biological process. The terms "amino acid" and "amino acids" refer to all naturally occurring L-amino acids. This definition is meant to include norleucine, ornithine, homocysteine, and homoserine.

One or more of the protein or fragment of peptide molecules may be produced via chemical synthesis, or more preferably, by expression in a suitable bacterial or eukaryotic host. Suitable methods for expression are described by Sambrook, *et al.*, (In: *Molecular Cloning, A Laboratory Manual, 2nd Edition, Cold Spring Harbor Press*, Cold Spring Harbor, New York (1989)), or similar texts.

A "protein fragment" is a peptide or polypeptide molecule whose amino acid sequence comprises a subset of the amino acid sequence of that protein. A protein or fragment thereof that comprises one or more additional peptide regions not derived from that protein is a "fusion" protein. Such molecules may be derivatized to contain carbohydrate or other moieties (such as keyhole limpet hemocyanin, etc.). Fusion protein or peptide molecule of the present invention are preferably produced via recombinant means.

Another class of agents comprise protein or peptide molecules encoded by SEQ ID NO: 1 through SEQ ID NO:18718 or complements thereof or, fragments or fusions thereof in which non-essential, or not relevant, amino acid residues have been added, replaced, or deleted. An example of such a homologue is the homologue protein of all non-*Arabidopsis thaliana* plant species, including but not limited to alfalfa, soybean, barley, *Brassica*, broccoli, cabbage, citrus, cotton, garlic, oat, oilseed rape, onion, canola, flax, maize, an ornamental plant, pea, peanut, pepper, potato, rice, rye, sorghum,

strawberry, sugarcane, sugarbeet, tomato, wheat, poplar, pine, fir, eukalyptus, apple, lettuce, peas, lentils, grape, banana, tea, turf grasses, etc. Particularly preferred non-*Arabidopsis thaliana* plants to utilize for the isolation of homologues would include alfalfa, soybean, barley, cotton, corn, oat, oilseed rape, rice, corn, canola, ornamentals, sugarcane, sugarbeet, tomato, potato, wheat, and turf grasses. Such a homologue can be obtained by any of a variety of methods. Most preferably, as indicated above, one or more of the disclosed sequences (SEQ ID NO: 1 through SEQ ID NO:18718 or complements thereof) will be used to define a pair of primers that may be used to isolate the homologue-encoding nucleic acid molecules from any desired species. Such molecules can be expressed to yield homologues by recombinant means.

(c) **Antibodies**

One aspect of the present invention concerns antibodies, single-chain antigen binding molecules, or other proteins that specifically bind to one or more of the protein or peptide molecules of the present invention and their homologues, fusions or fragments. Such antibodies may be used to quantitatively or qualitatively detect the protein or peptide molecules of the present invention. As used herein, an antibody or peptide is said to "specifically bind" to a protein or peptide molecule of the present invention if such binding is not competitively inhibited by the presence of non-related molecules.

Nucleic acid molecules that encode all or part of the protein of the present invention can be expressed, via recombinant means, to yield protein or peptides that can in turn be used to elicit antibodies that are capable of binding the expressed protein or peptide. Such antibodies may be used in immunoassays for that protein. Such protein-encoding molecules, or their fragments may be a "fusion" molecule (i.e., a part of a larger nucleic acid molecule) such that, upon expression, a fusion protein is produced. It is understood that any of the nucleic acid molecules of the present invention may be expressed, via recombinant means, to yield proteins or peptides encoded by these nucleic acid molecules.

The antibodies that specifically bind proteins and protein fragments of the present invention may be polyclonal or monoclonal, and may comprise intact immunoglobulins, or antigen binding portions of immunoglobulins (such as (F(ab'), $F(ab')_2$) fragments, or single-chain immunoglobulins producible, for example, via recombinant means). It is understood that practitioners are familiar with the standard resource materials which describe specific conditions and procedures for the construction, manipulation and isolation of antibodies (see, for example, Harlow and Lane, In *Antibodies: A Laboratory Manual*, Cold Spring Harbor Press, Cold Spring Harbor, New York (1988), the entirety of which is herein incorporated by reference).

Murine monoclonal antibodies are particularly preferred. BALB/c mice are preferred for this purpose, however, equivalent strains may also be used. The animals are preferably immunized with approximately 25 μg of purified protein (or fragment thereof) that has been emulsified a suitable adjuvant (such as TiterMax adjuvant (Vaxcel, Norcross, GA)). Immunization is preferably conducted at two intramuscular sites, one intraperitoneal site, and one subcutaneous site at the base of the tail. An additional i.v. injection of approximately 25 μg of antigen is preferably given in normal saline three weeks later. After approximately 11 days following the second injection, the mice may be bled and the blood screened for the presence of anti-protein or peptide antibodies. Preferably, a direct binding Enzyme-Linked Immunoassay (ELISA) is employed for this purpose.

More preferably, the mouse having the highest antibody titer is given a third i.v. injection of approximately 25 μg of the same protein or fragment. The splenic leukocytes from this animal may be recovered 3 days later, and are then permitted to fuse, most preferably, using polyethylene glycol, with cells of a suitable myeloma cell line (such as, for example, the P3X63Ag8.653 myeloma cell line). Hybridoma cells are selected by culturing the cells under "HAT" (hypoxanthine-aminopterin-thymine) selection for about

one week. The resulting clones may then be screened for their capacity to produce monoclonal antibodies ("mAbs), preferably by direct ELISA.

In one embodiment, anti-protein or peptide monoclonal antibodies are isolated using a fusion of a protein, protein fragment, or peptide of the present invention, or conjugate of a protein, protein fragment, or peptide of the present invention, as immunogens. Thus, for example, a group of mice can be immunized using a fusion protein emulsified in Freund's complete adjuvant (e.g. approximately 50 μg of antigen per immunization). At three week intervals, an identical amount of antigen is emulsified in Freund's incomplete adjuvant and used to immunize the animals. Ten days following the third immunization, serum samples are taken and evaluated for the presence of antibody. If antibody titers are too low, a fourth booster can be employed. Polysera capable of binding the protein or peptide can also be obtained using this method.

In a preferred procedure for obtaining monoclonal antibodies, the spleens of the above-described immunized mice are removed, disrupted, and immune splenocytes are isolated over a ficoll gradient. The isolated splenocytes are fused, using polyethylene glycol with BALB/c-derived HGPRT (hypoxanthine guanine phosphoribosyl transferase) deficient P3x63xAg8.653 plasmacytoma cells. The fused cells are plated into 96-well microtiter plates and screened for hybridoma fusion cells by their capacity to grow in culture medium supplemented with hypothanthine, aminopterin and thymidine for approximately 2-3 weeks.

Hybridoma cells that arise from such incubation are preferably screened for their capacity to produce an immunoglobulin that binds to a protein of interest. An indirect ELISA may be used for this purpose. In brief, the supernatants of hybridomas are incubated in microtiter wells that contain immobilized protein. After washing, the titer of bound immunoglobulin can be determined using, for example, a goat anti-mouse antibody conjugated to horseradish peroxidase. After additional washing, the amount of immobilized enzyme is determined (for example through the use of a chromogenic

substrate). Such screening is performed as quickly as possible after the identification of the hybridoma in order to ensure that a desired clone is not overgrown by non-secreting neighbors. Desirably, the fusion plates are screened several times since the rates of hybridoma growth vary. In a preferred sub-embodiment, a different antigenic form of immunogen may be used to screen the hybridoma. Thus, for example, the splenocytes may be immunized with one immunogen, but the resulting hybridomas can be screened using a different immunogen. It is understood that any of the protein or peptide molecules of the present invention may be used to raise antibodies.

As discussed below, such antibody molecules or their fragments may be used for diagnostic purposes. Where the antibodies are intended for diagnostic purposes, it may be desirable to derivatize them, for example with a ligand group (such as biotin) or a detectable marker group (such as a fluorescent group, a radioisotope or an enzyme).

The ability to produce antibodies that bind the protein or peptide molecules of the present invention permits the identification of mimetic compounds of those molecules. A "mimetic compound" is a compound that is not that compound, or a fragment of that compound, but which nonetheless exhibits an ability to specifically bind to antibodies directed against that compound.

It is understood that any of the agents of the present invention can be substantially purified and/or be biologically active and/or recombinant.

Uses of the Agents of the Invention

The nucleic acid molecules and fragments thereof of LIB9 are isolated from *Arabidopsis thaliana*, ecotype Columbia, leaf tissue. Leaves are the carbohydrate factories of crop plants, therefore; the ESTs of the present invention will find great use in the isolation of a variety of agronomically significant genes, including but not limited to genes that are necessary for the interception and transformation of light energy via photosynthesis linked with plant growth, quality, and yield. Genes isolated utilizing the

disclosed ESTs would also be in pathways including but not limited to a pathway such as nitrogen metabolism linked to fruiting and mobilization and distribution of nitrogen.

The nucleic acid molecules and fragments thereof of LIB22 are isolated from root from *Arabidopsis thaliana,* Columbia ecotype, plants. Root libraries can enable the acquisition of genes that will facilitate gene and protein expression analysis and genetic mapping. This information will enable the determination of genes in the synthesis and catabolism of traits including but not limited to genes involved in supplying water, minerals and substances essential to plant growth and development, absorption, anchorage, storage, transport, propagation and nitrogen fixation.

The nucleic acid molecules and fragments thereof of LIB23 are isolated from *Arabidopsis thaliana*, ecotype Columbia, stem tissue. Stems are involved in plant architecture, therefore; the ESTs of the present invention will find great use in the isolation of a variety of agronomically significant genes, including but not limited to genes that are instrumental in preventing lodging or control of plant height; genes that modify vascular structure for support and result in improvements in transport of solutes, ions and water flow, lignin biosynthesis genes, and drought tolerance genes.

The nucleic acid molecules and fragments thereof of LIB24 are isolated from *Arabidopsis thaliana*, ecotype Columbia, flower bud tissue. Flower libraries can enable the acquisition of, but are not limited to genes that are involved in floral development, reproduction and seed production, therefore, the ESTs of the present invention will find great use in the isolation of a variety of agronomically significant genes, including but not limited to, genes that regulate meiosis, cell division, carotenoids, floral biogenesis, embryogenesis, protein, amino acids, sterols, oils, minerals, isoflavones, saponins, vitamins, tocopherols, antinutrient components, carbohydrates, starch metabolism and seed regulatory elements. Such genes are associated with plant growth, quality and yield, and could also serve as links in important developmental, metabolic, and catabolic pathways.

The nucleic acid molecules and fragments thereof of LIB25 are isolated from *Arabidopsis thaliana*, ecotype Columbia, open flower tissue. Flower libraries can enable the acquisition of, but are not limited to, genes that are involved in floral development, reproduction and seed production, therefore, the ESTs of the present invention will find great use in the isolation of a variety of agronomically significant genes, including but not limited to, genes that regulate meiosis, cell division, carotenoids, floral biogenesis, embryogenesis, protein, amino acids, sterols, oils, minerals, isoflavones, saponins, vitamins, tocopherols, antinutrient components, carbohydrates, starch metabolism and seed regulatory elements. Such genes are associated with plant growth, quality and yield, and could also serve as links in important developmental, metabolic, and catabolic pathways.

The nucleic acid molecules and fragments thereof of LIB35 are isolated from leaf from *Arabidopsis thaliana* Columbia ecotype plants. Leaves are the carbohydrate factories of crop plants, therefore; the ESTs of the present invention will find great use in the isolation of a variety of agronomically significant genes, including but not limited to genes that are necessary for the interception and transformation of light energy via photosynthesis linked with plant growth, quality, and yield. Genes isolated utilizing the disclosed ESTs would also be in pathways including but not limited to a pathway such as nitrogen metabolism linked to fruiting and mobilization and distribution of nitrogen.

The nucleic acid molecules and fragments thereof of LIB146 are isolated from *Arabidopsis thaliana*, ecotype Columbia, immature seed tissue. Seed libraries can enable the acquisition of a variety of agronomically significant genes involved in the synthesis and catabolism of commercially important traits. The ESTs of the present invention can enable the the acquisition of, but are not limited to genes that regulate protein, oils, amino acids, sterols, minerals, isoflavones, saponins, vitamins, tocopherols, antinutrient components, carbohydrates, starch metabolism and seed regulatory elements. Such genes

are associated with plant growth, quality and yield, and could also serve as links in important developmental, metabolic, and catabolic pathways.

Nucleic acid molecules and fragments thereof of the present invention may be employed to obtain other nucleic acid molecules. Such molecules include the nucleic acid molecules of other plants or other organisms (*e.g.*, alfalfa, rice, potato, cotton, oat, rye, barley, maize, wheat, soybean, *Brassica,* etc.) including the nucleic acid molecules that encode, in whole or in part, protein homologues of other plant species or other organisms, and sequences of genetic elements such as promoters and transcriptional regulatory elements. Such molecules can be readily obtained by using the above-described nucleic acid molecules or fragments thereof to screen cDNA or genomic libraries obtained from such plant species. Methods for forming such libraries are well known in the art. Such homologue molecules may differ in their nucleotide sequences from those found in one or more of SEQ ID NO:1 through SEQ ID NO:18718 or complements thereof because complete complementarity is not needed for stable hybridization. The nucleic acid molecules of the present invention therefore also include molecules that, although capable of specifically hybridizing with the nucleic acid molecules may lack "complete complementarity."

Any of a variety of methods may be used to obtain one or more of the above-described nucleic acid molecules (Zamechik *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 83*:4143-4146 (1986), the entirety of which is herein incorporated by reference; Goodchild *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 85*:5507-5511 (1988), the entirety of which is herein incorporated by reference; Wickstrom *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 85*:1028-1032 (1988), the entirety of which is herein incorporated by reference; Holt, *et al.*, *Molec. Cell. Biol. 8*:963-973 (1988), the entirety of which is herein incorporated by reference; Gerwirtz, *et al.*, *Science 242*:1303-1306 (1988), the entirety of which is herein incorporated by reference; Anfossi, *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 86*:3379-3383 (1989), the entirety of which is herein incorporated by reference; Becker,

et al., *EMBO J. 8*:3685-3691 (1989); the entirety of which is herein incorporated by reference). Automated nucleic acid synthesizers may be employed for this purpose. In lieu of such synthesis, the disclosed nucleic acid molecules may be used to define a pair of primers that can be used with the polymerase chain reaction (Mullis, *et al.*, *Cold Spring Harbor Symp. Quant. Biol. 51*:263-273 (1986); Erlich *et al.*, EP 50,424; EP 84,796, EP 258,017, EP 237,362; Mullis, EP 201,184; Mullis *et al.*, US 4,683,202; Erlich, US 4,582,788; and Saiki, R. *et al.*, US 4,683,194, all of which are hereby incorporated by reference in their entirety) to amplify and obtain any desired nucleic acid molecule or fragment.

Promoter sequence(s) and other genetic elements including but not limited to transcriptional regulatory elements associated with one or more of the disclosed nucleic acid sequences can also be obtained using the disclosed nucleic acid sequences provided herein.

In one embodiment, such sequences are obtained by incubating EST nucleic acid molecules or preferably fragments thereof with members of genomic libraries (*e.g.* maize and soybean) and recovering clones that hybridize to the EST nucleic acid molecule or fragment thereof. In a second embodiment, methods of "chromosome walking," or inverse PCR may be used to obtain such sequences (Frohman, *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 85*:8998-9002 (1988); Ohara, *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 86*: 5673-5677 (1989); Pang *et al.*, *Biotechniques*, 22(6); 1046-1048 (1977); Huang *et al.*, *Methods Mol. Biol.* 69: 89-96 (1977); Hartl *et al.*, *Methods Mol. Biol.* 58: 293-301 (1996), all of which are hereby incorporated by reference in their entirety). In one embodiment, the disclosed nucleic acid molecules are used to identify cDNAs whose analogous genes contain promoters with desirable expression patterns. The nucleic acid molecules isolated from the library of the present invention are used to isolate promoters of tissue-enhanced, tissue-specific, developmentally- or environmentally-regulated expression profiles. Isolation and functional analysis of the 5' flanking promoter

sequences of these genes from genomic libraries, for example, using genomic screening methods and PCR techniques would result in the isolation of useful promoters and transcriptional regulatory elements. These methods are known to those of skill in the art and have been described (See for example Birren *et al.*, *Genome Analysis:Analyzing DNA*, 1, (1997), Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., the entirety of which is herein incorporated by reference).

Promoters obtained utilizing the nucleic acid molecules of the present invention could also be modified to affect their control characteristics. Examples of such modifications would include but are not limited to enhancer sequences as reported by Kay *et al.*, *Science 236*:1299 (1987), herein incorporated by reference in its entirety. Such genetic elements could be used to enhance gene expression of new and existing traits for crop improvements.

The nucleic acid molecules of the present invention may be used to isolate promoters of tissue enhanced. tissue specific, cell-specific, cell -type, developmentally or environmentally regulated expression profiles. Isolation and functional analysis of the 5' flanking promoter sequences of these genes from genomic libraries, for example, using genomic screening methods and PCR techniques would result in the isolation of useful promoters and transcriptional regulatory elements. These methods are known to those of skill in the art and have been described (*See*, for example, *Birren et. al.*, *Genome Analysis*: *Analyzing DNA*, 1, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y. (1997), the entirety of which is herein incorporated by reference). Promoters obtained utilizing the nucleic acid molecules of the present invention could also be modified to affect their control characteristics. Examples of such modifications would include but are not limited to enhancer sequences as reported by Kay, *et al Science 236*:1299 (1987), herein incorporated reference in its entirety. Such genetic elements could be used to enhance gene expression of new and existing traits for crop improvements.

In an aspect of the present invention, one or more of the nucleic molecules of the present invention are used to determine whether a plant (preferably *Arabidopsis thaliana* and more preferably *Arabidopsis thaliana*, ecotype Columbia) has a mutation affecting the level (i.e., the concentration of mRNA in a sample, etc.) or pattern (i.e., the kinetics of expression, rate of decomposition, stability profile, etc.) of the expression encoded in part or whole by one or more of the nucleic acid molecules of the present invention (collectively, the "Expression Response" of a cell or tissue). As used herein, the Expression Response manifested by a cell or tissue is said to be "altered" if it differs from the Expression Response of cells or tissues of plants not exhibiting the phenotype. To determine whether a Expression Response is altered, the Expression Response manifested by the cell or tissue of the plant exhibiting the phenotype is compared with that of a similar cell or tissue sample of a plant not exhibiting the phenotype. As will be appreciated, it is not necessary to re-determine the Expression Response of the cell or tissue sample of plants not exhibiting the phenotype each time such a comparison is made; rather, the Expression Response of a particular plant may be compared with previously obtained values of normal plants. As used herein, the phenotype of the organism is any of one or more characteristics of an organism (e.g. disease resistance, pest tolerance, environmental tolerance, male sterility, yield, quality improvements, etc.). A change in genotype or phenotype may be transient or permanent. Also as used herein, a tissue sample is any sample that comprises more than one cell. In a preferred aspect, a tissue sample comprises cells that share a common characteristic (e.g. derived from leaf, root, or pollen etc).

In one sub-aspect, such an analysis is conducted by determining the presence and/or identity of polymorphism(s) by one or more of the nucleic acid molecules of the present invention and more specifically, one or more of the EST nucleic acid molecules or fragments thereof which are associated with phenotype, or a predisposition to phenotype.

Any of a variety of molecules can be used to identify such polymorphism(s). In one embodiment, one or more of the EST nucleic acid molecules (or a sub-fragment thereof) may be employed as a marker nucleic acid molecule to identify such polymorphism(s). Alternatively, such polymorphisms can be detected through the use of a marker nucleic acid molecule or a marker protein that is genetically linked to (i.e., a polynucleotide that co-segregates with) such polymorphism(s).

In an alternative embodiment, such polymorphisms can be detected through the use of a marker nucleic acid molecule that is physically linked to such polymorphism(s). For this purpose, marker nucleic acid molecules comprising a nucleotide sequence of a polynucleotide located within 1 mb of the polymorphism(s), and more preferably within 100 kb of the polymorphism(s), and most preferably within 10 kb of the polymorphism(s) can be employed.

The genomes of animals and plants naturally undergo spontaneous mutation in the course of their continuing evolution (Gusella, *Ann. Rev. Biochem. 55*:831-854 (1986)). A "polymorphism" is a variation or difference in the sequence of the gene or its flanking regions that arises in some of the members of a species. The variant sequence and the "original" sequence co-exist in the species' population. In some instances, such co-existence is in stable or quasi-stable equilibrium.

A polymorphism is thus said to be "allelic," in that, due to the existence of the polymorphism, some members of a species may have the original sequence (i.e., the original "allele") whereas other members may have the variant sequence (i.e., the variant "allele"). In the simplest case, only one variant sequence may exist, and the polymorphism is thus said to be di-allelic. In other cases, the species' population may contain multiple alleles, and the polymorphism is termed tri-allelic, etc. A single gene may have multiple different unrelated polymorphisms. For example, it may have a di-allelic polymorphism at one site, and a multi-allelic polymorphism at another site.

The variation that defines the polymorphism may range from a single nucleotide variation to the insertion or deletion of extended regions within a gene. In some cases, the DNA sequence variations are in regions of the genome that are characterized by short tandem repeats (STRs) that include tandem di- or tri-nucleotide repeated motifs of nucleotides. Polymorphisms characterized by such tandem repeats are referred to as "variable number tandem repeat" ("VNTR") polymorphisms. VNTRs have been used in identity analysis (Weber, U.S. Patent 5,075,217; Armour, *et al.*, *FEBS Lett. 307*:113-115 (1992); Jones, *et al.*, *Eur. J. Haematol. 39*:144-147 (1987); Horn, *et al.*, PCT Application WO91/14003; Jeffreys, European Patent Application 370,719; Jeffreys, U.S. Patent 5,699,082; Jeffreys. *et al.*, *Amer. J. Hum. Genet. 39*:11-24 (1986); Jeffreys. *et al.*, *Nature 316*:76-79 (1985); Gray, *et al.*, *Proc. R. Acad. Soc. Lond. 243*:241-253 (1991); Moore, *et al.*, *Genomics 10*:654-660 (1991); Jeffreys, *et al.*, *Anim. Genet. 18*:1-15 (1987); Hillel, *et al.*, *Anim. Genet. 20*:145-155 (1989); Hillel, *et al.*, *Genet. 124*:783-789 (1990), all of which are herein incorporated by reference in their entirety).

The detection of polymorphic sites in a sample of DNA may be facilitated through the use of nucleic acid amplification methods. Such methods specifically increase the concentration of polynucleotides that span the polymorphic site, or include that site and sequences located either distal or proximal to it. Such amplified molecules can be readily detected by gel electrophoresis or other means.

The most preferred method of achieving such amplification employs the polymerase chain reaction ("PCR") (Mullis, *et al.*, *Cold Spring Harbor Symp. Quant. Biol. 51*:263-273 (1986); Erlich, *et al.*, European Patent Appln. 50,424; European Patent Appln. 84,796, European Patent Application 258,017, European Patent Appln. 237,362; Mullis, European Patent Appln. 201,184; Mullis, *et al.*, U.S. Patent No. 4,683,202; Erlich., U.S. Patent No. 4,582,788; and Saiki, *et al.*, U.S. Patent No. 4,683,194, all of which are herein incorporated by reference), using primer pairs that are capable of

hybridizing to the proximal sequences that define a polymorphism in its double-stranded form.

In lieu of PCR, alternative methods, such as the "Ligase Chain Reaction" ("LCR") may be used (Barany, *Proc. Natl. Acad. Sci. (U.S.A.) 88*:189-193 (1991), the entirety of which is herein incorporated by reference). LCR uses two pairs of oligonucleotide probes to exponentially amplify a specific target. The sequences of each pair of oligonucleotides is selected to permit the pair to hybridize to abutting sequences of the same strand of the target. Such hybridization forms a substrate for a template-dependent ligase. As with PCR, the resulting products thus serve as a template in subsequent cycles and an exponential amplification of the desired sequence is obtained.

LCR can be performed with oligonucleotides having the proximal and distal sequences of the same strand of a polymorphic site. In one embodiment, either oligonucleotide will be designed to include the actual polymorphic site of the polymorphism. In such an embodiment, the reaction conditions are selected such that the oligonucleotides can be ligated together only if the target molecule either contains or lacks the specific nucleotide that is complementary to the polymorphic site present on the oligonucleotide. Alternatively, the oligonucleotides may be selected such that they do not include the polymorphic site (see, Segev, PCT Application WO 90/01069, the entirety of which is herein incorporated by reference).

The "Oligonucleotide Ligation Assay" ("OLA") may alternatively be employed (Landegren, *et al.*, *Science 241*:1077-1080 (1988), the entirety of which is herein incorporated by reference). The OLA protocol uses two oligonucleotides which are designed to be capable of hybridizing to abutting sequences of a single strand of a target. OLA, like LCR, is particularly suited for the detection of point mutations. Unlike LCR, however, OLA results in "linear" rather than exponential amplification of the target sequence.

Nickerson, *et al.* have described a nucleic acid detection assay that combines attributes of PCR and OLA (Nickerson, *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 87*:8923-8927 (1990), the entirety of which is herein incorporated by reference). In this method, PCR is used to achieve the exponential amplification of target DNA, which is then detected using OLA. In addition to requiring multiple, and separate, processing steps, one problem associated with such combinations is that they inherit all of the problems associated with PCR and OLA.

Schemes based on ligation of two (or more) oligonucleotides in the presence of nucleic acid having the sequence of the resulting "di-oligonucleotide", thereby amplifying the di-oligonucleotide, are also known (Wu, *et al.*, *Genomics 4*:560 (1989), the entirety of which is herein incorporated by reference), and may be readily adapted to the purposes of the present invention.

Other known nucleic acid amplification procedures, such as allele-specific oligomers, branched DNA technology, transcription-based amplification systems, or isothermal amplification methods may also be used to amplify and analyze such polymorphisms (Malek, *et al.*, U.S. Patent 5,130,238; Davey, *et al.*, European Patent Application 329,822; Schuster *et al.*, U.S. Patent 5,169,766; Miller, *et al.*, PCT Application WO 89/06700; Kwoh, *et al.*, *Proc. Natl. Acad. Sci.* (U.S.A.) *86*:1173-1177 (1989); Gingeras, *et al.*, PCT Application WO 88/10315; Walker, *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 89*:392-396 (1992), all of which are herein incorporated by reference in their entirety).

The identification of a polymorphism can be determined in a variety of ways. By correlating the presence or absence of it in a plant with the presence or absence of a phenotype, it is possible to predict the phenotype of that plant. If a polymorphism creates or destroys a restriction endonuclease cleavage site, or if it results in the loss or insertion of DNA (e.g., a VNTR polymorphism), it will alter the size or profile of the DNA fragments that are generated by digestion with that restriction endonuclease. As such,

individuals that possess a variant sequence can be distinguished from those having the original sequence by restriction fragment analysis. Polymorphisms that can be identified in this manner are termed "restriction fragment length polymorphisms" ("RFLPs"). RFLPs have been widely used in human and plant genetic analyses (Glassberg, UK Patent Application 2135774; Skolnick, *et al.*, *Cytogen. Cell Genet. 32*:58-67 (1982); Botstein, *et al.*, *Ann. J. Hum. Genet. 32*:314-331 (1980); Fischer, *et al.* (PCT Application WO90/13668); Uhlen, PCT Application WO90/11369).

Polymorphisms can also be identified by Single Strand Conformation Polymorphism (SSCP) analysis. The SSCP technique is a method capable of identifying most sequence variations in a single strand of DNA, typically between 150 and 250 nucleotides in length (Elles, *Methods in Molecular Medicine: Molecular Diagnosis of Genetic Diseases*, Humana Press (1996), the entirety of which is herein incorporated by reference); Orita *et al., Genomics 5:* 874-879 (1989), the entirety of which is herein incorporated by reference). Under denaturing conditions a single strand of DNA will adopt a conformation that is uniquely dependent on its sequence conformation. This conformation usually will be different, even if only a single base is changed. Most conformations have been reported to alter the physical configuration or size sufficiently to be detectable by electrophoresis. A number of protocols have been described for SSCP including, but not limited to Lee *et al., Anal. Biochem. 205:* 289-293 (1992), the entirety of which is herein incorporated by reference; Suzuki *et al., Anal. Biochem. 192:* 82-84 (1991), the entirety of which is herein incorporated by reference; Lo *et al., Nucleic Acids Research 20:* 1005-1009 (1992), the entirety of which is herein incorporated by reference; Sarkar *et al., Genomics 13:* 441-443 (1992), the entirety of which is herein incorporated by reference). It is understood that one or more of the nucleic acids of the present invention, may be utilized as markers or probes to detect polymorphisms by SSCP analysis.

Polymorphisms may also be found using a DNA fingerprinting technique called amplified fragment length polymorphism (AFLP), which is based on the selective PCR amplification of restriction fragments from a total digest of genomic DNA to profile that DNA. Vos, *et al.*, *Nucleic Acids Res. 23*:4407-4414 (1995), the entirety of which is herein incorporated by reference. This method allows for the specific co-amplification of high numbers of restriction fragments, which can be visualized by PCR without knowledge of the nucleic acid sequence.

AFLP employs basically three steps. Initially, a sample of genomic DNA is cut with restriction enzymes and oligonucleotide adapters are ligated to the restriction fragments of the DNA. The restriction fragments are then amplified using PCR by using the adapter and restriction sequence as target sites for primer annealing. The selective amplification is achieved by the use of primers that extend into the restriction fragments, amplifying only those fragments in which the primer extensions match the nucleotide flanking the restriction sites. These amplified fragments are then visualized on a denaturing polyacrylamide gel.

AFLP analysis has been performed on *Salix* (Beismann, *et al.*, *Mol. Ecol. 6*:989-993 (1997), the entirety of which is herein incorporated by reference); *Acinetobacter* (Janssen, *et al.*, *Int. J. Syst. Bacteriol 47*:1179-1187 (1997), the entirety of which is herein incorporated by reference), *Aeromonas popoffi* (Huys, *et al.*, *Int. J. Syst. Bacteriol. 47*:1165-1171 (1997), the entirety of which is herein incorporated by reference), rice (McCouch, *et al.*, *Plant Mol. Biol. 35*:89-99 (1997), the entirety of which is herein incorporated by reference); Nandi, *et al.*, *Mol. Gen. Genet. 255*:1-8 (1997); Cho, *et al.*, *Genome 39*:373-378 (1996), herein incorporated by reference), barley (*Hordeum vulgare*)(Simons, *et al.*, *Genomics 44*:61-70 (1997), the entirety of which is herein incorporated by reference; Waugh, *et al.*, *Mol. Gen. Genet. 255*:311-321 (1997), the entirety of which is herein incorporated by reference; Qi, *et al.*, *Mol. Gen Genet. 254*:330-336 (1997), the entirety of which is herein incorporated by reference; Becker, *et al.*, *Mol.*

Gen. Genet. 249:65-73 (1995), the entirety of which is herein incorporated by reference), potato (Van der Voort, *et al.*, *Mol. Gen. Genet. 255*:438-447 (1997), the entirety of which is herein incorporated by reference; Meksem, *et al.*, *Mol. Gen. Genet. 249*:74-81 (1995), the entirety of which is herein incorporated by reference), *Phytophthora infestans* (Van der Lee, *et al.*, *Fungal Genet. Biol. 21*:278-291 (1997), the entirety of which is herein incorporated by reference), *Bacillus anthracis* (Keim, *et al.*, *J. Bacteriol. 179*:818-824 (1997)), *Astragalus cremnophylax* (Travis, *et al.*, *Mol. Ecol. 5*:735-745 (1996), the entirety of which is herein incorporated by reference), *Arabidopsis* (Cnops, *et al.*, *Mol. Gen. Genet. 253*:32-41 (1996), the entirety of which is herein incorporated by reference), *Escherichia coli* (Lin, *et al.*, *Nucleic Acids Res. 24*:3649-3650 (1996), the entirety of which is herein incorporated by reference), *Aeromonas* (Huys, *et al.*, *Int. J. Syst. Bacteriol. 46*:572-580 (1996), the entirety of which is herein incorporated by reference), nematode (Folkertsma, *et al.*, *Mol. Plant Microbe Interact. 9*:47-54 (1996), the entirety of which is herein incorporated by reference), tomato (Thomas, *et al.*, *Plant J. 8*:785-794 (1995), the entirety of which is herein incorporated by reference), and human (Latorra, *et al.*, *PCR Methods Appl. 3*:351-358 (1994)). AFLP analysis has also been used for fingerprinting mRNA (Money, *et al.*, *Nucleic Acids Res. 24*:2616-2617 (1996), the entirety of which is herein incorporated by reference; Bachem, *et al.*, *Plant J. 9*:745-753 (1996), the entirety of which is herein incorporated by reference). It is understood that one or more of the nucleic acids of the present invention, may be utilized as markers or probes to detect polymorphisms by AFLP analysis for fingerprinting mRNA.

Polymorphisms may also be found using random amplified polymorphic DNA (RAPD) (Williams *et al., Nucl. Acids Res. 18*: 6531-6535 (1990), the entirety of which is herein incorporated by reference) and cleaveable amplified polymorphic sequences (CAPS) (Lyamichev *et al.*, *Science 260*: 778-783 (1993), the entirety of which is herein incorporated by reference). It is understood that one or more of the nucleic acids of the

present invention, may be utilized as markers or probes to detect polymorphisms by RAPD or CAPS analysis.

Polymorphisms are useful, through linkage analysis, to define the genetic distances or physical distances between polymorphic traits. A physical map or ordered array of genomic DNA fragments in the desired region containing the gene may be used to characterize and isolate genes corresponding to desirable traits. For this purpose, yeast artificial chromosomes (YACs), bacterial artificial chromosomes (BACs), and cosmids are appropriate vectors for cloning large segments of DNA molecules. Although fewer clones are needed to make a contig for a specific genomic region by using YACs (Agyare *et al., Genome Res. 7*: 1-9 (1997), the entirety of which is herein incorporated by reference; James *et al., Genomics 32*: 425-430 (1996), the entirety of which is herein incorporated by reference), chimerism in the inserted DNA fragment can arise. Cosmids are convenient for handling smaller-size DNA molecules and may be used for transformation in developing transgenic plants. BACs also carry DNA fragments and are less prone to chimerism.

Through genetic mapping, a fine scale linkage map can be developed using DNA markers and, then, a genomic DNA library of large-sized fragments can be screened with molecular markers linked to the desired trait. Molecular markers are advantageous for agronomic traits that are otherwise difficult to tag, such as resistance to pathogens, insects and nematodes, tolerance to abiotic stress, quality parameters and quantitative traits such as high yield potential.

The essential requirements for marker-assisted selection in a plant breeding program are: (1) the marker(s) should co-segregate or be closely linked with the desired trait; (2) an efficient means of screening large populations for the molecular marker(s) should be available; and (3) the screening technique should have high reproducibility across laboratories and preferably be economical to use and be user-friendly.

The genetic linkage of marker molecules can be established by a gene mapping model such as, without limitation, the flanking marker model reported by Lander and Botstein, *Genetics 121*:185-199 (1989) and the interval mapping, based on maximum likelihood methods described by Lander and Botstein, *Genetics 121*:185-199 (1989) and implemented in the software package MAPMAKER/QTL (Lincoln and Lander, *Mapping Genes Controlling Quantitative Traits Using MAPMAKER/QTL,* Whitehead Institute for Biomedical Research, Massachusetts, (1990). Additional software includes Qgene, Version 2.23 (1996), Department of Plant Breeding and Biometry, 266 Emerson Hall, Cornell University, Ithaca, NY, the manual of which is herein incorporated by reference in its entirety). Use of Qgene software is a particularly preferred approach.

A maximum likelihood estimate (MLE) for the presence of a marker is calculated, together with an MLE assuming no QTL effect, to avoid false positives. A $\log_{10}$ of an odds ratio (LOD) is then calculated as: LOD = $\log_{10}$ (MLE for the presence of a QTL/MLE given no linked QTL).

The LOD score essentially indicates how much more likely the data are to have arisen assuming the presence of a QTL than in its absence. The LOD threshold value for avoiding a false positive with a given confidence, say 95%, depends on the number of markers and the length of the genome. Graphs indicating LOD thresholds are set forth in Lander and Botstein, *Genetics 121*:185-199 (1989) the entirety of which is herein incorporated by reference and further described by Arús and Moreno-González, *Plant Breeding*, Hayward *et al.,* (eds.) Chapman & Hall, London, pp. 314-331 (1993), the entirety of which is herein incorporated by reference.

Additional models can be used. Many modifications and alternative approaches to interval mapping have been reported, including the use of non-parametric methods (Kruglyak and Lander, *Genetics 139:*1421-1428 (1995), the entirety of which is herein incorporated by reference). Multiple regression methods or models can be also be used, in which the trait is regressed on a large number of markers (Jansen, *Biometrics in Plant*

Breeding, van Oijen and Jansen (eds.), Proceedings of the Ninth Meeting of the Eucarpia Section Biometrics in Plant Breeding, The Netherlands, pp. 116-124 (1994); Weber and Wricke, *Advances in Plant Breeding,* Blackwell, Berlin, 16 (1994), both of which is herein incorporated by reference in their entirety). Procedures combining interval mapping with regression analysis, whereby the phenotype is regressed onto a single putative QTL at a given marker interval and at the same time onto a number of markers that serve as 'cofactors,' have been reported by Jansen and Stam, *Genetics 136*:1447-1455 (1994), the entirety of which is herein incorporated by reference and Zeng, *Genetics 136*:1457-1468 (1994) the entirety of which is herein incorporated by reference. Generally, the use of cofactors reduces the bias and sampling error of the estimated QTL positions (Utz and Melchinger, *Biometrics in Plant Breeding,* van Oijen and Jansen (eds.) Proceedings of the Ninth Meeting of the Eucarpia Section Biometrics in Plant Breeding, The Netherlands, pp.195-204 (1994), the entirety of which is herein incorporated by reference, thereby improving the precision and efficiency of QTL mapping (Zeng, *Genetics 136*:1457-1468 (1994)). These models can be extended to multi-environment experiments to analyze genotype-environment interactions (Jansen *et al., Theo. Appl. Genet. 91*:33-37 (1995), the entirety of which is herein incorporated by reference).

Selection of an appropriate mapping population is important to map construction. The choice of an appropriate mapping population depends on the type of marker systems employed (Tanksley *et al., Molecular mapping plant chromosomes. Chromosome structure and function: Impact of new concepts,* Gustafson and Appels (eds.), Plenum Press, New York, pp 157-173 (1988), the entirety of which is herein incorporated by reference). Consideration must be given to the source of parents (adapted vs. exotic) used in the mapping population. Chromosome pairing and recombination rates can be severely disturbed (suppressed) in wide crosses (adapted x exotic) and generally yield greatly reduced linkage distances. Wide crosses will usually provide segregating populations

with a relatively large array of polymorphisms when compared to progeny in a narrow cross (adapted x adapted).

An F_2 population is the first generation of selfing after the hybrid seed is produced. Usually a single F_1 plant is selfed to generate a population segregating for all the genes in Mendelian (1:2:1) fashion. Maximum genetic information is obtained from a completely classified F_2 population using a codominant marker system (Mather, *Measurement of Linkage in Heredity,* Methuen and Co., (1938), the entirety of which is herein incorporated by reference). In the case of dominant markers, progeny tests (e.g. F_3, BCF_2) are required to identify the heterozygotes, thus making it equivalent to a completely classified F_2 population. However, this procedure is often prohibitive because of the cost and time involved in progeny testing. Progeny testing of F_2 individuals is often used in map construction where phenotypes do not consistently reflect genotype (e.g. disease resistance) or where trait expression is controlled by a QTL. Segregation data from progeny test populations (e.g. F_3 or BCF_2) can be used in map construction. Marker-assisted selection can then be applied to cross progeny based on marker-trait map associations (F_2, F_3), where linkage groups have not been completely disassociated by recombination events (i.e., maximum disequillibrium).

Recombinant inbred lines (RIL) (genetically related lines; usually $>F_5$, developed from continuously selfing F_2 lines towards homozygosity) can be used as a mapping population. Information obtained from dominant markers can be maximized by using RIL because all loci are homozygous or nearly so. Under conditions of tight linkage (i.e., about <10% recombination), dominant and co-dominant markers evaluated in RIL populations provide more information per individual than either marker type in backcross populations (Reiter *et al., Proc. Natl. Acad. Sci. (U.S.A.) 89*:1477-1481 (1992), the entirety of which is herein incorporated by reference). However, as the distance between markers becomes larger (i.e., loci become more independent), the information in RIL populations decreases dramatically when compared to codominant markers.

Backcross populations (e.g., generated from a cross between a successful variety (recurrent parent) and another variety (donor parent) carrying a trait not present in the former) can be utilized as a mapping population. A series of backcrosses to the recurrent parent can be made to recover most of its desirable traits. Thus a population is created consisting of individuals nearly like the recurrent parent but each individual carries varying amounts or mosaic of genomic regions from the donor parent. Backcross populations can be useful for mapping dominant markers if all loci in the recurrent parent are homozygous and the donor and recurrent parent have contrasting polymorphic marker alleles (Reiter *et al., Proc. Natl. Acad. Sci. (U.S.A.) 89*:1477-1481 (1992)). Information obtained from backcross populations using either codominant or dominant markers is less than that obtained from F_2 populations because one, rather than two, recombinant gametes are sampled per plant. Backcross populations, however, are more informative (at low marker saturation) when compared to RILs as the distance between linked loci increases in RIL populations (i.e. about 15% recombination). Increased recombination can be beneficial for resolution of tight linkages, but may be undesirable in the construction of maps with low marker saturation.

Near-isogenic lines (NIL) created by many backcrosses to produce an array of individuals that are nearly identical in genetic composition except for the trait or genomic region under interrogation can be used as a mapping population. In mapping with NILs, only a portion of the polymorphic loci are expected to map to a selected region.

Bulk segregant analysis (BSA) is a method developed for the rapid identification of linkage between markers and traits of interest (Michelmore *et al., Proc. Natl. Acad. Sci. (U.S.A.) 88*:9828-9832 (1991), the entirety of which is herein incorporated by reference). In BSA, two bulked DNA samples are drawn from a segregating population originating from a single cross. These bulks contain individuals that are identical for a particular trait (resistant or susceptible to particular disease) or genomic region but

arbitrary at unlinked regions (i.e. heterozygous). Regions unlinked to the target region will not differ between the bulked samples of many individuals in BSA.

It is understood that one or more of the nucleic acid molecules of the present invention may be used as molecular markers. It is also understood that one or more of the protein molecules of the present invention may be used as molecular markers.

In accordance with this aspect of the present invention, a sample nucleic acid is obtained from plants cells or tissues. Any source of nucleic acid may be used. Preferably, the nucleic acid is genomic DNA. The nucleic acid is subjected to restriction endonuclease digestion. For example, one or more EST nucleic acid molecule or fragment thereof can be used as a probe in accordance with the above-described polymorphic methods. The polymorphism obtained in this approach can then be cloned to identify the mutation at the coding region which alters the protein's structure or regulatory region of the gene which affects its expression level.

In one aspect of the present invention, an evaluation can be conducted to determine whether a particular mRNA molecule is present. One or more of the nucleic acid molecules of the present invention, preferably one or more of the EST nucleic acid molecules of the present invention are utilized to detect the presence or quantity of the mRNA species. Such molecules are then incubated with cell or tissue extracts of a plant under conditions sufficient to permit nucleic acid hybridization. The detection of double-stranded probe-mRNA hybrid molecules is indicative of the presence of the mRNA; the amount of such hybrid formed is proportional to the amount of mRNA. Thus, such probes may be used to ascertain the level and extent of the mRNA production in a plant's cells or tissues. Such nucleic acid hybridization may be conducted under quantitative conditions (thereby providing a numerical value of the amount of the mRNA present). Alternatively, the assay may be conducted as a qualitative assay that indicates either that the mRNA is present, or that its level exceeds a user set, predefined value.

A principle of *in situ* hybridization is that a labeled, single-stranded nucleic acid probe will hybridize to a complementary strand of cellular DNA or RNA and, under the appropriate conditions, these molecules will form a stable hybrid. When nucleic acid hybridization is combined with histological techniques, specific DNA or RNA sequences can be identified within a single cell. An advantage of *in situ* hybridization over more conventional techniques for the detection of nucleic acids is that it allows an investigator to determine the precise spatial population (Angerer *et al., Dev. Biol. 101*: 477-484 (1984), the entirety of which is herein incorporated by reference; Angerer *et al., Dev. Biol. 112*: 157-166 (1985), the entirety of which is herein incorporated by reference; Dixon *et al., EMBO J. 10*: 1317-1324 (1991), the entirety of which is herein incorporated by reference). *In situ* hybridization may be used to measure the steady-state level of RNA accumulation. It is a sensitive technique and RNA sequences present in as few as 5-10 copies per cell can be detected (Hardin *et al., J. Mol. Biol. 202*: 417-431.(1989), the entirety of which is herein incorporated by reference). A number of protocols have been devised for *in situ* hybridization, each with tissue preparation, hybridization, and washing conditions (Meyerowitz, *Plant Mol. Biol. Rep. 5*: 242-250 (1987), the entirety of which is herein incorporated by reference; Cox and Goldberg, In: *Plant Molecular Biology: A Practical Approach* (ed. C.H. Shaw), pp. 1-35. IRL Press, Oxford (1988), the entirety of which is herein incorporated by reference; Raikhel *et al., In situ RNA hybridization in plant tissues.* In *Plant Molecular Biology Manual*, vol. B9: 1-32. Kluwer Academic Publisher, Dordrecht, Belgium (1989), the entirety of which is herein incorporated by reference).

In situ hybridization also allows for the localization of proteins within a tissue or cell (Wilkinson, *In Situ Hybridization,* Oxford University Press, Oxford (1992), the entirety of which is herein incorporated by reference; Langdale, *In Situ Hybridization* 165-179 In: *The Maize Handbook,* eds. Freeling and Walbot, Springer-Verlag, New York (1994), the entirety of which is herein incorporated by reference). It is understood that

one or more of the molecules of the present invention, preferably one or more of the EST nucleic acid molecules of the present invention or one or more of the antibodies of the present invention may be utilized to detect the level or pattern of a protein or fragment thereof by *in situ* hybridization.

Fluorescent *in situ* hybridization also enables the localization of a particular DNA sequence along a chromosome which is useful, among other uses, for gene mapping, following chromosomes in hybrid lines or detecting chromosomes with translocations, transversions or deletions. *In situ* hybridization has been used to identify chromosomes in several plant species (Griffor *et al., Plant Mol. Biol. 17*: 101-109 (1991), the entirety of which is herein incorporated by reference; Gustafson *et al., Proc. Nat'l. Acad. Sci. (U.S.A). 87*: 1899-1902 (1990), herein incorporated by reference; Mukai and Gill, *Genome 34*: 448-452. (1991); Schwarzacher and Heslop-Harrison, *Genome 34*: 317-323 (1991); Wang *et al., Jpn. J. Genet. 66*: 313-316 (1991), the entirety of which is herein incorporated by reference; Parra and Windle, *Nature Genetics, 5*: 17-21 (1993), the entirety of which is herein incorporated by reference). It is understood that the nucleic acid molecules of the present invention may be used as probes or markers to localize sequences along a chromosome.

It is also understood that one or more of the molecules of the present invention, preferably one or more of the EST nucleic acid molecules of the present invention or one or more of the antibodies of the present invention may be utilized to detect the expression level or pattern of a protein or mRNA thereof by *in situ* hybridization.

Another method to localize the expression of a molecule is tissue printing. Tissue printing provides a way to screen, at the same time on the same membrane many tissue sections from different plants or different developmental stages. Tissue-printing procedures utilize films designed to immobilize proteins and nucleic acids. In essence, a freshly cut section of an organ is pressed gently onto nitrocellulose paper, nylon membrane or polyvinylidene difluoride membrane. Such membranes are commercially

available (e.g. Millipore, Bedford, Massachusetts). The contents of the cut cell transfer onto the membrane, and the molecules are immobilized to the membrane. The immobilized molecules form a latent print that can be visualized with appropriate probes. When a plant tissue print is made on nitrocellulose paper, the cell walls leave a physical print that makes the anatomy visible without further treatment (Varner and Taylor, *Plant Physiol. 91*: 31-33 (1989), the entirety of which is herein incorporated by reference).

Tissue printing on substrate films is described by Daoust, *Exp. Cell Res. 12*: 203-211 (1957), the entirety of which is herein incorporated by reference, who detected amylase, protease, ribonuclease, and deoxyribonuclease in animal tissues using starch, gelatin, and agar films. These techniques can be applied to plant tissues (Yomo and Taylor, *Planta 112*:35-43 (1973); Harris and Chrispeels, *Plant Physiol.* 56: 292-299 (1975). Advances in membrane technology have increased the range of applications of Daoust's tissue-printing techniques allowing (Cassab and Varner, *J. Cell. Biol.* 105: 2581-2588 (1987), the entirety of which is herein incorporated by reference; the histochemical localization of various plant enzymes and deoxyribonuclease on nitrocellulose paper and nylon (Spruce *et al.*, *Phytochemistry, 26:* 2901-2903 (1987), the entirety of which is herein incorporated by reference; Barres *et al. Neuron 5:* 527-544 (1990), the entirety of which is herein incorporated by reference; the entirety of which is herein incorporated by reference; Reid and Pont-Lezica, *Tissue Printing: Tools for the Study of Anatomy, Histochemistry, and Gene Expression,* Academic Press, New York, New York (1992), the entirety of which is herein incorporated by reference; Reid *et al. Plant Physiol. 93:* 160-165 (1990), herein incorporate by reference; Ye *et al. Plant J. 1:* 175-183 (1991), the entirety of which is herein incorporated by reference).

It is understood that one or more of the molecules of the present invention, preferably one or more of the EST nucleic acid molecules of the present invention or one or more of the antibodies of the present invention may be utilized to detect the presence or quantity of a protein by tissue printing.

Further, it is also understood that any of the nucleic acid molecules of the present invention may be used as marker nucleic acids and or probes in connection with methods that require probes or marker nucleic acids. As used herein, a probe is an agent that is utilized to determine an attribute or feature (e.g. presence or absence, location, correlation, etc.) or a molecule, cell, tissue or plant. As used herein, a marker nucleic acid is a nucleic acid molecule that is utilized to determine an attribute or feature (e.g., presence or absence, location, correlation, etc.) or a molecule, cell, tissue or plant.

A microarray-based method for high-throughput monitoring of plant gene expression may be utilized to measure gene-specific hybridization targets. This 'chip'-based approach involves using microarrays of nucleic acid molecules as gene-specific hybridization targets to quantitatively measure expression of the corresponding plant genes (Schena *et al.*, *Science 270*: 467-470 (1995), the entirety of which is herein incorporated by reference; Shalon, Ph.D. Thesis. Stanford University (1996), the entirety of which is herein incorporated by reference). Every nucleotide in a large sequence can be queried at the same time. Hybridization can be used to efficiently analyze large amounts of nucleotide sequence.

Several microarray methods have been described. One method compares the sequences to be analyzed by hybridization to a set of oligonucleotides representing all possible subsequences (Bains and Smith, *J. Theor. Biol.* 135: 303 (1989), the entirety of which is herein incorporated by reference). A second method hybridizes the sample to an array of oligonucleotide probes. An array consisting of oligonucleotides complementary to subsequences of a target sequence can be used to determine the identity of a target sequence, measure its amount, and detect differences between the target and a reference sequence. Nucleic acid molecules microarrays may also be screened with protein molecules or fragments thereof to determine nucleic acid molecules that specifically bind protein molecules or fragments thereof.

The microarray approach may be used with polypeptide targets (U.S. Patent No. 5,445,934; U.S. Patent No: 5,143,854; U.S. Patent No. 5,079,600; U.S. Patent No. 4,923,901, all of which are herein incorporated by reference in their entirety). Essentially, polypeptides are synthesized on a substrate (microarray) and these polypeptides can be screened with either protein molecules or fragments thereof or nucleic acid molecules in order to screen for either protein molecules or fragments thereof or nucleic acid molecules that specifically bind the target polypeptides. Implementation of these techniques rely on recently developed combinatorial technologies to generate any ordered array of a large number of oligonucleotide probes (Fodor *et al.*, *Science 251*:767-773 (1991), the entirety of which is herein incorporated by reference).

It is understood that one or more of the molecules of the present invention, preferably one or more of the nucleic acid molecules or protein molecules or fragments thereof of the present invention may be utilized in a microarray based method.

In a preferred embodiment of the present invention microarrays may be prepared that comprise nucleic acid molecules where preferably at least 10%, preferably at least 25%, more preferably at least 50% and even more preferably at least 75%, 80%, 85%, 90% or 95% of the nucleic acid molecules located on that array are selected from the group of nucleic acid molecules that specifically hybridize to one or more nucleic acid molecule having a nucleic acid sequence selected from the group of SEQ ID NO: 1 through SEQ ID NO: 18718 or complement thereof or fragments of either.

A particular preferred microarray embodiment of the present invention is a microarray comprising nucleic acid molecules encoding genes or fragments thereof that are homologues of known genes or nucleic acid molecules that comprise genes or fragment thereof that elicit only limited or no matches to known genes. A further preferred microarray embodiment of the present invention is a microarray comprising nucleic acid molecules having genes or fragments thereof that are homologues of known genes and nucleic acid molecules that comprise genes or fragment thereof that elicit only

limited or no matches to known genes. Site-directed mutagenesis may be utilized to modify nucleic acid sequences, particularly as it is a technique that allows one or more of the amino acids encoded by a nucleic acid molecule to be altered (e.g. a threonine to be replaced by a methionine). Three basic methods for site-directed mutagenesis are often employed. These are cassette mutagenesis (Wells *et al.*, *Gene 34*:315-23 (1985), the entirety of which is herein incorporated by reference), primer extension (Gilliam *et al.*, *Gene 12*:129-137 (1980), the entirety of which is herein incorporated by reference); Zoller and Smith, *Methods Enzymol. 100*:468-500 (1983), the entirety of which is herein incorporated by reference; and Dalbadie-McFarland *et al., Proc. Natl. Acad. Sci. (U.S.A.) 79*:6409-6413 (1982), the entirety of which is herein incorporated by reference) and methods based upon PCR (Scharf *et al., Science 233*:1076-1078 (1986), the entirety of which is herein incorporated by reference; Higuchi *et al., Nucleic Acids Res. 16*:7351-7367 (1988), the entirety of which is herein incorporated by reference). Site-directed mutagenesis approaches are also described in European Patent 0 385 962, the entirety of which is herein incorporated by reference, European Patent 0 359 472, the entirety of which is herein incorporated by reference, and PCT Patent Application WO 93/07278, the entirety of which is herein incorporated by reference.

Site-directed mutagenesis strategies have been applied to plants for both *in vitro* as well as *in vivo* site-directed mutagenesis (Lanz *et al., J. Biol. Chem.* 266:9971-6 (1991), the entirety of which is herein incorporated by reference; Kovgan and Zhdanov, *Biotekhnologiya 5*:148-154; No. 207160n, Chemical Abstracts 110:225 (1989), the entirety of which is herein incorporated by reference; Ge *et al., Proc. Natl. Acad. Sci. (U.S.A.) 86*:4037-4041 (1989), the entirety of which is herein incorporated by reference, Zhu *et al., J. Biol. Chem. 271*:18494-18498 (1996), Chu *et al., Biochemistry 33*:6150-6157 (1994), the entirety of which is herein incorporated by reference, Small *et al., EMBO J. 11*:1291-1296 (1992), the entirety of which is herein incorporated by reference, Cho *et al., Mol. Biotechnol. 8*:13-16 (1997), Kita *et al., J. Biol. Chem. 271*:26529-26535

(1996), the entirety of which is herein incorporated by reference, Jin *et al., Mol. Microbiol.* 7:555-562 (1993), the entirety of which is herein incorporated by reference, Hatfield and Vierstra, *J. Biol. Chem.* 267:14799-14803 (1992), the entirety of which is herein incorporated by reference, Zhao *et al., Biochemistry 31*:5093-5099 (1992), the entirety of which is herein incorporated by reference).

Any of the nucleic acid molecules of the present invention may either be modified by site-directed mutagenesis or used as, for example, nucleic acid molecules that are used to target other nucleic acid molecules for modification. It is understood that mutants with more than one altered nucleotide can be constructed using techniques that practitioners skilled in the art are familiar with such as isolating restriction fragments and ligating such fragments into an expression vector (*see*, for example, Sambrook *et al.*, *Molecular Cloning: A Laboratory Manual*, Cold Spring Harbor Press (1989)).

Sequence-specific DNA-binding proteins play a role in the regulation of transcription. The isolation of recombinant cDNAs encoding these proteins facilitates the biochemical analysis of their structural and functional properties. Genes encoding such DNA-binding proteins have been isolated using classical genetics (Vollbrecht *et al., Nature 350*: 241-243 (1991), the entirety of which is herein incorporated by reference) and molecular biochemical approaches, including the screening of recombinant cDNA libraries with antibodies (Landschulz *et al., Genes Dev. 2*: 786-800 (1988), the entirety of which is herein incorporated by reference) or DNA probes (Bodner *et al., Cell 55*: 505-518 (1988), the entirety of which is herein incorporated by reference). In addition, an *in situ* screening procedure has been used and has facilitated the isolation of sequence-specific DNA-binding proteins from various plant species (Gilmartin *et al., Plant Cell 4*: 839-849 (1992), the entirety of which is herein incorporated by reference; Schindler *et al., EMBO J. 11*: 1261-1273 (1992) the entirety of which is herein incorporated by reference). An *in situ* screening protocol does not require the purification of the protein of interest (Vinson et al., *Genes Dev. 2*: 801-806 (1988), the entirety of which is herein

incorporated by reference; Singh *et al., Cell 52*: 415-423 (1988), the entirety of which is herein incorporated by reference).

Steps may be employed to characterize DNA-protein interactions. The first is to identify promoter fragments that interact with DNA-binding proteins, to titrate binding activity, to determine the specificity of binding, and to determine whether a given DNA-binding activity can interact with related DNA sequences (Sambrook *et al., Molecular Cloning: A Laboratory Manual*, 2nd edition. Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York (1989). Electrophoretic mobility-shift assay is a widely used assay. The assay provides a simple, rapid, and sensitive method for detecting DNA-binding proteins based on the observation that the mobility of a DNA fragment through a nondenaturing, low-ionic strength polyacrylamide gel is retarded upon association with a DNA-binding protein (Fried and Crother, *Nucleic Acids Res. 9*: 6505-6525 (1981), the entirety of which is herein incorporated by reference). When one or more specific binding activities have been identified, the exact sequence of the DNA bound by the protein may be determined. Several procedures for characterizing protein/DNA-binding sites are used, including methylation and ethylation interference assays (Maxam and Gilbert, *Methods Enzymol. 65*: 499-560 (1980), the entirety of which is herein incorporated by reference; Wissman and Hillen, *Methods Enzymol. 208*: 365-379 (1991), the entirety of which is herein incorporated by reference) and footprinting techniques employing DNase I (Galas and Schmitz, *Nucleic Acids Res. 5*: 3157-3170 (1978), the entirety of which is herein incorporated by reference), 1,10-phenanthroline-copper ion methods (Sigman *et al., Methods Enzymol. 208*: 365-379 (1991), the entirety of which is herein incorporated by reference) or hydroxyl radical methods (Dixon *et al., Methods Enzymol. 208*: 380-413 (1991), the entirety of which is herein incorporated by reference). It is understood that one or more of the nucleic acid molecules of the present invention, preferably one or more of the EST nucleic acid molecules of the present invention may be utilized to identify a protein or fragment thereof that specifically binds to a nucleic acid

molecule of the present invention. It is also understood that one or more of the protein molecules or fragments thereof of the present invention may be utilized to identify a nucleic acid molecule that specifically binds to it.

The two-hybrid system is based on the fact that many cellular functions are carried out by proteins that interact (physically) with one another. Two-hybrid systems have been used to probe the function of new proteins (Chien *et al., Proc. Natl. Acad. Sci. (U.S.A.) 88*: 9578-9582 (1991) the entirety of which is herein incorporated by reference; Durfee *et al., Genes Dev. 7*: 555-569 (1993) the entirety of which is herein incorporated by reference; Choi *et al., Cell 78*: 499-512 (1994), the entirety of which is herein incorporated by reference; Kranz *et al., Genes Dev. 8:* 313-327 (1994), the entirety of which is herein incorporated by reference).

Interaction mating techniques have facilitated a number of two-hybrid studies of protein-protein interaction. Interaction mating has been used to examine interactions between small sets of tens of proteins (Finley and Brent, *Proc. Natl. Acad. Sci. (U.S.A.) 91*: 12098-12984 (1994), the entirety of which is herein incorporated by reference), larger sets of hundreds of proteins, (Bendixen *et al., Nucl. Acids Res. 22*: 1778-1779 (1994), the entirety of which is herein incorporated by reference) and to comprehensively map proteins encoded by a small genome (Bartel et al., *Nature Genetics 12*: 72-77 (1996), the entirety of which is herein incorporated by reference). This technique utilizes proteins fused to the DNA-binding domain and proteins fused to the activation domain. They are expressed in two different haploid yeast strains of opposite mating type, and the strains are mated to determine if the two proteins interact. Mating occurs when haploid yeast strains come into contact and result in the fusion of the two haploids into a diploid yeast strain. An interaction can be determined by the activation of a two-hybrid reporter gene in the diploid strain. The primary advantage of this technique is that it reduces the number of yeast transformations needed to test individual interactions. It is understood that the protein-protein interactions of protein or fragments thereof of the present

invention may be investigated using the two-hybrid system and that any of the nucleic acid molecules of the present invention that encode such proteins or fragments thereof may be used to transform yeast in the two-hybrid system.

Synechocystis 6803 is a photosynthetic Cyanobacterium capable of oxygenic photosynthesis as well as heterotrophic growth in the absence of light. The entire genome has been sequenced, and it is reported to have a circular genome size of 3.57 Mbp containing 3168 potential open reading frames. Open reading frames (ORFs) were identified based upon their homology to other reported ORFs and by using ORF identification computer programs. Sixteen hundred potential ORFs were assigned based on their homology to previously identified ORFs. Of these 1600 ORFs, 145 were identical to reported ORFs (Kaneko *et al.,DNA Research 3*:109-36 (1996), herein incorporated by reference in its entirety).

Several prokaryote promoters have been used in *Synechocystis* to express heterologous genes including the tac, lac, and lambda phage promoters (Bryant (ed.), *The Molecular Biology of Cyanobacteria*, Kluwer Academic Publishers, (1994); Ferino and Chauvat, *Gene 84*:257-266 (1989), both of which are herein incorporated by reference in their entirety). Several bacterial origins of replication such as RSF1010 and ACYC are reported to replicate in *Synechocystis* (Mermet-Bouvier and Chauvat, *Current Microbiology 28*:145-148 (1994); Kuhlemeier *et al.*, *Mol. Gen. Genet. 184*:249-254 (1981), both of which are herein incorporated by reference in their entirety).

Synechocystis has been used to study gene regulation by gene replacement through homologous recombination or by gene disruption using antibiotic resistance markers (Pakrasi *et al.,EMBO 7*:325-332 (1988), herein incorporated by reference in its entirety). In such gene regulation studies, double reciprocal homologous regions of the host genome flanking the gene of interest recombine to stably integrate the gene of interest into the genome. The gene of interest can be expressed once that gene has been stably integrated into the genome. Biochemical analysis can be performed to study the effect of the replaced or deleted gene.

It is understood that the agents of the present invention may be employed in a *Synechocystis* system.

Exogenous genetic material may be transferred into a plant cell and the plant cell regenerated into a whole, fertile or sterile plant. Exogenous genetic material is any genetic material, whether naturally occurring or otherwise, from any source that is capable of being inserted into any organism. Such genetic material may be transferred into either monocotyledons and dicotyledons including but not limited to the crops, maize and soybean (*See specifically,* Chistou, *Particle Bombardment for Genetic Engineering of Plants,* pp 63-69 (maize), pp50-60 (soybean), Biotechnology Intelligence Unit. Academic Press, San Diego, California (1996), the entirety of which is herein incorporated by reference and generally Chistou, *Particle Bombardment for Genetic Engineering of Plants,* Biotechnology Intelligence Unit. Academic Press, San Diego, California (1996), the entirety of which is herein incorporated by reference).

Transfer of a nucleic acid that encodes for a protein can result in overexpression of that protein in a transformed cell or transgenic plant. One or more of the proteins or fragments thereof encoded by nucleic acid molecules of the present invention may be overexpressed in a transformed cell or transformed plant. Such overexpression may be the result of transient or stable transfer of the exogenous material.

Exogenous genetic material may be transferred into a plant cell by the use of a DNA vector or construct designed for such a purpose. Design of such a vector is generally within the skill of the art (*See*, Plant Molecular Biology: A Laboratory Manual eds. Clark, Springer, New York (1997), the entirety of which is herein incorporated by reference).

A construct or vector may include a plant promoter to express the protein or protein fragment of choice. A number of promoters which are active in plant cells have been described in the literature. These include the nopaline synthase (NOS) promoter (Ebert *et al., Proc. Natl. Acad. Sci. (U.S.A.) 84*:5745-5749 (1987), the entirety of which is

herein incorporated by reference), the octopine synthase (OCS) promoter (which are carried on tumor-inducing plasmids of *Agrobacterium tumefaciens*), the caulimovirus promoters such as the cauliflower mosaic virus (CaMV) 19S promoter (Lawton *et al.*, *Plant Mol. Biol. 9*:315-324 (1987), the entirety of which is herein incorporated by reference) and the CAMV 35S promoter (Odell *et al.*, *Nature 313*:810-812 (1985), the entirety of which is herein incorporated by reference), the figwort mosaic virus 35S-promoter, the light-inducible promoter from the small subunit of ribulose-1,5-bis-phosphate carboxylase (ssRUBISCO), the Adh promoter (Walker *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 84*:6624-6628 (1987), the entirety of which is herein incorporated by reference), the sucrose synthase promoter (Yang *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 87*:4144-4148 (1990), the entirety of which is herein incorporated by reference), the R gene complex promoter (Chandler *et al.*, *The Plant Cell 1*:1175-1183 (1989), the entirety of which is herein incorporated by reference), and the chlorophyll a/b binding protein gene promoter, etc. These promoters have been used to create DNA constructs which have been expressed in plants; *see*, *e.g.*, PCT publication WO 84/02913, herein incorporated by reference in its entirety.

Promoters which are known or are found to cause transcription of DNA in plant cells can be used in the present invention. Such promoters may be obtained from a variety of sources such as plants and plant viruses. It is preferred that the particular promoter selected should be capable of causing sufficient expression to result in the production of an effective amount of a protein to cause the desired phenotype. In addition to promoters which are known to cause transcription of DNA in plant cells, other promoters may be identified for use in the current invention by screening a plant cDNA library for genes which are selectively or preferably expressed in the target tissues or cells.

For the purpose of expression in source tissues of the plant, such as the leaf, seed, root or stem, it is preferred that the promoters utilized in the present invention have

relatively high expression in these specific tissues. For this purpose, one may choose from a number of promoters for genes with tissue- or cell-specific or -enhanced expression. Examples of such promoters reported in the literature include the chloroplast glutamine synthetase GS2 promoter from pea (Edwards *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 87*:3459-3463 (1990), herein incorporated by reference in its entirety), the chloroplast fructose-1,6-biphosphatase (FBPase) promoter from wheat (Lloyd *et al.*, *Mol. Gen. Genet. 225*:209-216 (1991), herein incorporated by reference in its entirety), the nuclear photosynthetic ST-LS1 promoter from potato (Stockhaus *et al.*, *EMBO J. 8*:2445-2451 (1989), herein incorporated by reference in its entirety), the phenylalanine ammonia-lyase (PAL) promoter and the chalcone synthase (CHS) promoter from *Arabidopsis thaliana*. Also reported to be active in photosynthetically active tissues are the ribulose-1,5-bisphosphate carboxylase (RbcS) promoter from eastern larch (*Larix laricina*), the promoter for the *cab* gene, cab6, from pine (Yamamoto *et al.*, *Plant Cell Physiol. 35*:773-778 (1994), herein incorporated by reference in its entirety), the promoter for the Cab-1 gene from wheat (Fejes *et al.*, *Plant Mol. Biol. 15*:921-932 (1990), herein incorporated by reference in its entirety), the promoter for the CAB-1 gene from spinach (Lubberstedt *et al.*, *Plant Physiol. 104*:997-1006 (1994), herein incorporated by reference in its entirety), the promoter for the cab1R gene from rice (Luan *et al.*, *Plant Cell. 4*:971-981 (1992), the entirety of which is herein incorporated by reference), the pyruvate, orthophosphate dikinase (PPDK) promoter from maize (Matsuoka *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 90*: 9586-9590 (1993), herein incorporated by reference in its entirety), the promoter for the tobacco Lhcb1*2 gene (Cerdan *et al.*, *Plant Mol. Biol. 33*: 245-255. (1997), herein incorporated by reference in its entirety), the *Arabidopsis thaliana* SUC2 sucrose-H+ symporter promoter (Truernit *et al.*, *Planta. 196*: 564-570 (1995), herein incorporated by reference in its entirety), and the promoter for the thylacoid membrane proteins from spinach (psaD, psaF, psaE, PC, FNR, atpC, atpD, cab, rbcS). Other promoters for the chlorophyl a/b-binding proteins may also be utilized in

the present invention, such as the promoters for LhcB gene and PsbP gene from white mustard (*Sinapis alba*; Kretsch *et al.*, *Plant Mol. Biol. 28*: 219-229 (1995), the entirety of which is herein incorporated by reference).

For the purpose of expression in sink tissues of the plant, such as the tuber of the potato plant, the fruit of tomato, or the seed of maize, wheat, rice, and barley, it is preferred that the promoters utilized in the present invention have relatively high expression in these specific tissues. A number of promoters for genes with tuber-specific or -enhanced expression are known, including the class I patatin promoter (Bevan *et al.*, *EMBO J. 8*: 1899-1906 (1986); Jefferson *et al.*, *Plant Mol. Biol. 14*: 995-1006 (1990), both of which are herein incorporated by reference in its entirety), the promoter for the potato tuber ADPGPP genes, both the large and small subunits, the sucrose synthase promoter (Salanoubat and Belliard, *Gene. 60*: 47-56 (1987), Salanoubat and Belliard, *Gene. 84*: 181-185 (1989), both of which are incorporated by reference in their entirety), the promoter for the major tuber proteins including the 22 kd protein complexes and proteinase inhibitors (Hannapel, *Plant Physiol. 101*: 703-704 (1993), herein incorporated by reference in its entirety), the promoter for the granule bound starch synthase gene (GBSS) (Visser *et al.*, *Plant Mol. Biol. 17*: 691-699 (1991), herein incorporated by reference in its entirety), and other class I and II patatins promoters (Koster-Topfer *et al.*, *Mol Gen Genet. 219*: 390-396 (1989); Mignery *et al.*, *Gene. 62*: 27-44 (1988), both of which are herein incorporated by reference in their entirety).

Other promoters can also be used to express a fructose 1,6 bisphosphate aldolase gene in specific tissues, such as seeds or fruits. The promoter for β-conglycinin (Chen *et al.*, *Dev. Genet. 10*: 112-122 (1989), herein incorporated by reference in its entirety) or other seed-specific promoters such as the napin and phaseolin promoters, can be used. The zeins are a group of storage proteins found in maize endosperm. Genomic clones for zein genes have been isolated (Pedersen *et al.*, *Cell 29*: 1015-1026 (1982), herein incorporated by reference in its entierty), and the promoters from these clones, including

the 15 kD, 16 kD, 19 kD, 22 kD, 27 kD, and gamma genes, could also be used. Other promoters known to function, for example, in maize, include the promoters for the following genes: *waxy, Brittle, Shrunken 2*, Branching enzymes I and II, starch synthases, debranching enzymes, oleosins, glutelins, and sucrose synthases. A particularly preferred promoter for maize endosperm expression is the promoter for the glutelin gene from rice, more particularly the Osgt-1 promoter (Zheng *et al.*, *Mol. Cell Biol. 13*: 5829-5842 (1993), herein incorporated by reference in its entirety). Examples of promoters suitable for expression in wheat include those promoters for the ADPglucose pyrophosphorylase (ADPGPP) subunits, the granule bound and other starch synthases, the branching and debranching enzymes, the embryogenesis-abundant proteins, the gliadins, and the glutenins. Examples of such promoters in rice include those promoters for the ADPGPP subunits, the granule bound and other starch synthases, the branching enzymes, the debranching enzymes, sucrose synthases, and the glutelins. A particularly preferred promoter is the promoter for rice glutelin, Osgt-1. Examples of such promoters for barley include those for the ADPGPP subunits, the granule bound and other starch synthases, the branching enzymes, the debranching enzymes, sucrose synthases, the hordeins, the embryo globulins, and the aleurone specific proteins.

Root specific promoters may also be used. An example of such a promoter is the promoter for the acid chitinase gene (Samac *et al.*, *Plant Mol. Biol. 25*: 587-596 (1994), the entirety of which is herein incorporated by reference). Expression in root tissue could also be accomplished by utilizing the root specific subdomains of the CaMV35S promoter that have been identified (Lam *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 86*:7890-7894 (1989), herein incorporated by reference in its entirety). Other root cell specific promoters include those reported by Conkling *et al.* (Conkling *et al.*, *Plant Physiol. 93*:1203-1211 (1990), the entirety of which is herein incorporated by reference).

Additional promoters that may be utilized are described, for example, in U.S. Patent Nos. 5,378,619, 5,391,725, 5,428,147, 5,447,858, 5,608,144, 5,608,144,

5,614,399, 5,633,441, 5,633,435, and 4,633,436, all of which are herein incorporated in their entirety. In addition, a tissue specific enhancer may be used (Fromm *et al.*, *The Plant Cell 1*:977-984 (1989), the entirety of which is herein incorporated by reference).

Constructs or vectors may also include, with the coding region of interest, a nucleic acid sequence that acts, in whole or in part, to terminate transcription of that region. For example, such sequences have been isolated including the Tr7 3' sequence and the nos 3' sequence (Ingelbrecht *et al.*, *The Plant Cell 1*:671-680 (1989), the entirety of which is herein incorporated by reference; Bevan *et al.*, *Nucleic Acids Res. 11*:369-385 (1983), the entirety of which is herein incorporated by reference), or the like.

A vector or construct may also include regulatory elements. Examples of such include the Adh intron 1 (Callis *et al.*, *Genes and Develop. 1*:1183-1200 (1987), the entirety of which is herein incorporated by reference), the sucrose synthase intron (Vasil et al., Plant Physiol. 91:1575-1579 (1989), the entirety of which is herein incorporated by reference) and the TMV omega element (Gallie *et al.*, *The Plant Cell 1*:301-311 (1989), the entirety of which is herein incorporated by reference). These and other regulatory elements may be included when appropriate.

A vector or construct may also include a selectable marker. Selectable markers may also be used to select for plants or plant cells that contain the exogenous genetic material. Examples of such include, but are not limited to, a neo gene (Potrykus *et al.*, *Mol. Gen. Genet. 199*:183-188 (1985), the entirety of which is herein incorporated by reference) which codes for kanamycin resistance and can be selected for using kanamycin, G418, etc.; a bar gene which codes for bialaphos resistance; a mutant EPSP synthase gene (Hinchee *et al.*, *Bio/Technology 6*:915-922 (1988), the entirety of which is herein incorporated by reference) which encodes glyphosate resistance; a nitrilase gene which confers resistance to bromoxynil (Stalker *et al.*, *J. Biol. Chem. 263*:6310-6314 (1988), the entirety of which is herein incorporated by reference); a mutant acetolactate synthase gene (ALS) which confers imidazolinone or sulphonylurea resistance (European

Patent Application 154,204 (Sept. 11, 1985), the entirety of which is herein incorporated by reference); and a methotrexate resistant DHFR gene (Thillet *et al., J. Biol. Chem. 263*:12500-12508 (1988), the entirety of which is herein incorporated by reference).

A vector or construct may also include a transit peptide. Incorporation of a suitable chloroplast transit peptide may also be employed (European Patent Application Publication Number 0218571, the entirety of which is herein incorporated by reference). Translational enhancers may also be incorporated as part of the vector DNA. DNA constructs could contain one or more 5' non-translated leader sequences which may serve to enhance expression of the gene products from the resulting mRNA transcripts. Such sequences may be derived from the promoter selected to express the gene or can be specifically modified to increase translation of the mRNA. Such regions may also be obtained from viral RNAs, from suitable eukaryotic genes, or from a synthetic gene sequence. For a review of optimizing expression of transgenes, see Koziel *et al., Plant Mol. Biol. 32*:393-405 (1996), the entirety of which is herein incorporated by reference.

A vector or construct may also include a screenable marker. Screenable markers may be used to monitor expression. Exemplary screenable markers include a β-glucuronidase or uidA gene (GUS) which encodes an enzyme for which various chromogenic substrates are known (Jefferson, *Plant Mol. Biol, Rep. 5:* 387-405 (1987), the entirety of which is herein incorporated by reference; Jefferson *et al., EMBO J. 6:* 3901-3907 (1987), the entirety of which is herein incorporated by reference); an R-locus gene, which encodes a product that regulates the production of anthocyanin pigments (red color) in plant tissues ((Dellaporta *et al.*, Stadler Symposium *11*:263-282 (1988), the entirety of which is herein incorporated by reference); a β-lactamase gene (Sutcliffe *et al., Proc. Natl. Acad. Sci. (U.S.A.) 75*: 3737-3741 (1978), the entirety of which is herein incorporated by reference), a gene which encodes an enzyme for which various chromogenic substrates are known (e.g., PADAC, a chromogenic cephalosporin); a luciferase gene (Ow *et al., Science 234*: 856-859 (1986), the entirety of which is herein

incorporated by reference) a xylE gene (Zukowsky *et al.*, *Proc. Natl. Acad. Sci. (U.S.A.) 80*:1101-1105 (1983), the entirety of which is herein incorporated by reference) which encodes a catechol diozygenase that can convert chromogenic catechols; an α-amylase gene (Ikatu *et al.*, *Bio/Technol. 8*:241-242 (1990), the entirety of which is herein incorporated by reference); a tyrosinase gene (Katz *et al.*, *J. Gen. Microbiol. 129*:2703-2714 (1983), the entirety of which is herein incorporated by reference) which encodes an enzyme capable of oxidizing tyrosine to DOPA and dopaquinone which in turn condenses to melanin; an α-galactosidase, which will turn a chromogenic α-galactose substrate.

Included within the terms "selectable or screenable marker genes" are also genes which encode a scriptable marker whose secretion can be detected as a means of identifying or selecting for transformed cells. Examples include markers which encode a secretable antigen that can be identified by antibody interaction, or even secretable enzymes which can be detected catalytically. Secretable proteins fall into a number of classes, including small, diffusible proteins detectable, *e.g.,* by ELISA, small active enzymes detectable in extracellular solution (*e.g.,* α-amylase, β-lactamase, phosphinothricin transferase), or proteins which are inserted or trapped in the cell wall (such as proteins which include a leader sequence such as that found in the expression unit of extension or tobacco PR-S). Other possible selectable and/or screenable marker genes will be apparent to those of skill in the art.

Methods and compositions for transforming a bacteria and other microorganisms are known in the art (see for example Sambrook *et al., Molecular Cloning: A Laboratory Manual*, Second Edition, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N.Y., (1989), the entirety of which is herein incorporated by reference).

There are many methods for introducing transforming nucleic acid molecules into plant cells. Suitable methods are believed to include virtually any method by which nucleic acid molecules may be introduced into a cell, such as by *Agrobacterium* infection or direct delivery of nucleic acid molecules such as, for example, by PEG-mediated

transformation, by electroporation or by acceleration of DNA coated particles, etc. (Pottykus, *Ann. Rev. Plant Physiol. Plant Mol. Biol. 42*:205-225 (1991), the entirety of which is herein incorporated by reference; Vasil, *Plant Mol. Biol. 25*: 925-937 (1994), the entirety of which is herein incorporated by reference. For example, electroporation has been used to transform maize protoplasts (Fromm *et al.*, *Nature 312*:791-793 (1986), the entirety of which is herein incorporated by reference).

Other vector systems suitable for introducing transforming DNA into a host plant cell includes but is not limited to binary artificial chromosome (BIBAC) vectors (Hamilton *et al., Gene 200*:107-116, (1997), the entirety of which is herein incorporated by reference, and transfection with RNA viral vectors (Della-Cioppa *et al., Ann. N.Y. Acad. Sci.* (1996), 792 (Engineering Plants for Commercial Products and Applications), 57-61, the entirety of which is herein incorporated by reference.

Technology for introduction of DNA into cells is well known to those of skill in the art. Four general methods for delivering a gene into cells have been described: (1) chemical methods (Graham and van der Eb, *Virology, 54*:536-539 (1973), the entirety of which is herein incorporated by reference); (2) physical methods such as microinjection (Capecchi, *Cell 22*:479-488 (1980), electroporation (Wong and Neumann, *Biochem. Biophys. Res. Commun., 107*:584-587 (1982); Fromm *et al., Proc. Natl. Acad. Sci. USA*, 82:5824-5828 (1985); U. S. Patent No. 5,384,253; and the gene gun (Johnston and Tang, *Methods Cell Biol. 43*:353-365 (1994), all of which the entirety is herein incorporated by reference; (3) viral vectors (Clapp, *Clin. Perinatol., 20*:155-168 (1993); Lu *et al., J. Exp. Med., 178*:2089-2096 (1993); Eglitis and Anderson, *Biotechniques, 6*:608-614 (1988), all of which the entirety is herein incorporated by reference); and (4) receptor-mediated mechanisms (Curiel *et al., Hum. Gen. Ther., 3*:147-154 (1992); Wagner *et al., Proc. Natl. Acad. Sci. USA, 89*:6099-6103 (1992), all of which the entirety is herein incorporated by reference).

Acceleration methods that may be used include, for example, microprojectile bombardment and the like. One example of a method for delivering transforming nucleic acid molecules to plant cells is microprojectile bombardment. This method has been reviewed by Yang and Christou, eds., *Particle Bombardment Technology for Gene Transfer*, Oxford Press, Oxford, England (1994), the entirety of which is herein incorporated by reference). Non-biological particles (microprojectiles) that may be coated with nucleic acids and delivered into cells by a propelling force. Exemplary particles include those comprised of tungsten, gold, platinum, and the like.

A particular advantage of microprojectile bombardment, in addition to it being an effective means of reproducibly, and stably transforming monocotyledons, is that neither the isolation of protoplasts (Cristou *et al.*, *Plant Physiol. 87*:671-674 (1988), the entirety of which is herein incorporated by reference) nor the susceptibility of *Agrobacterium* infection is required. An illustrative embodiment of a method for delivering DNA into maize cells by acceleration is a biolistics g-particle delivery system, which can be used to propel particles coated with DNA through a screen, such as a stainless steel or Nytex screen, onto a filter surface covered with corn cells cultured in suspension. Gordon-Kamm *et al.,* describes the basic procedure for coating tungsten particles with DNA (Gordon-Kamm *et al.*, *Plant Cell 2*: 603-618 (1990), the entirety of which is herein incorporated by reference). The screen disperses the tungsten nucleic acid particles so that they are not delivered to the recipient cells in large aggregates. A particle delivery system suitable for use with the present invention is the helium acceleration PDS-1000/He gun which is available from Bio-Rad Laboratories (Bio-Rad, Hercules, California)(Sanford *et al.*, *Technique 3*:3-16 (1991), the entirety of which is herein incorporated by reference).

For the bombardment, cells in suspension may be concentrated on filters. Filters containing the cells to be bombarded are positioned at an appropriate distance below the

microprojectile stopping plate. If desired, one or more screens are also positioned between the gun and the cells to be bombarded.

Alternatively, immature embryos or other target cells may be arranged on solid culture medium. The cells to be bombarded are positioned at an appropriate distance below the macroprojectile stopping plate. If desired, one or more screens are also positioned between the acceleration device and the cells to be bombarded. Through the use of techniques set forth herein one may obtain up to 1000 or more foci of cells transiently expressing a marker gene. The number of cells in a focus which express the exogenous gene product 48 hours post-bombardment often range from one to ten and average one to three.

In bombardment transformation, one may optimize the prebombardment culturing conditions and the bombardment parameters to yield the maximum numbers of stable transformants. Both the physical and biological parameters for bombardment are important in this technology. Physical factors are those that involve manipulating the DNA/microprojectile precipitate or those that affect the flight and velocity of either the macro- or microprojectiles. Biological factors include all steps involved in manipulation of cells before and immediately after bombardment, the osmotic adjustment of target cells to help alleviate the trauma associated with bombardment, and also the nature of the transforming DNA, such as linearized DNA or intact supercoiled plasmids. It is believed that pre-bombardment manipulations are especially important for successful transformation of immature embryos. In another alternative embodiment, plastids can be stably transformed. Methods disclosed for plastid transformation in higher plants include the particle gun delivery of DNA containing a selectable marker and targeting of the DNA to the plastid genome through homologous recombination (Svab *et al., Proc. Natl. Acad. Sci. (U.S.A.) 87*:8526-8530 (1990); Svab and Maliga, *Proc. Natl. Acad. Sci. (U.S.A.) 90*:913-917 (1993); Staub and Maliga, *EMBO J. 12*:601-606 (1993); U.S.

Patents 5, 451,513 and 5,545,818, all of which are herein incorporated by reference in their entirety).

Accordingly, it is contemplated that one may wish to adjust various aspects of the bombardment parameters in small scale studies to fully optimize the conditions. One may particularly wish to adjust physical parameters such as gap distance, flight distance, tissue distance, and helium pressure. One may also minimize the trauma reduction factors by modifying conditions which influence the physiological state of the recipient cells and which may therefore influence transformation and integration efficiencies. For example, the osmotic state, tissue hydration and the subculture stage or cell cycle of the recipient cells may be adjusted for optimum transformation. The execution of other routine adjustments will be known to those of skill in the art in light of the present disclosure.

Agrobacterium-mediated transfer is a widely applicable system for introducing genes into plant cells because the DNA can be introduced into whole plant tissues, thereby bypassing the need for regeneration of an intact plant from a protoplast. The use of *Agrobacterium*-mediated plant integrating vectors to introduce DNA into plant cells is well known in the art. See, for example the methods described (Fraley *et al., Biotechnology 3*:629-635 (1985); Rogers *et al., Meth. In Enzymol, 153*:253-277 (1987), both of which are herein incorporated by reference in their entirety. Further, the integration of the Ti-DNA is a relatively precise process resulting in few rearrangements. The region of DNA to be transferred is defined by the border sequences, and intervening DNA is usually inserted into the plant genome as described (Spielmann *et al., Mol. Gen. Genet., 205*:34 (1986), the entirety of which is herein incorporated by reference).

Modern *Agrobacterium* transformation vectors are capable of replication in *E. coli* as well as *Agrobacterium*, allowing for convenient manipulations as described (Klee *et al., In: Plant DNA Infectious Agents*, T. Hohn and J. Schell, eds., Springer-Verlag, New York, pp. 179-203 (1985), the entirety of which is herein incorporated by reference.

Moreover, recent technological advances in vectors for *Agrobacterium*-mediated gene transfer have improved the arrangement of genes and restriction sites in the vectors to facilitate construction of vectors capable of expressing various polypeptide coding genes. The vectors described have convenient multi-linker regions flanked by a promoter and a polyadenylation site for direct expression of inserted polypeptide coding genes and are suitable for present purposes (Rogers *et al., Meth. In Enzymol., 153*:253-277 (1987), the entirety of which is herein incorporated by reference). In addition, *Agrobacterium* containing both armed and disarmed Ti genes can be used for the transformations. In those plant strains where *Agrobacterium*-mediated transformation is efficient, it is the method of choice because of the facile and defined nature of the gene transfer.

A transgenic plant formed using *Agrobacterium* transformation methods typically contains a single gene on one chromosome. Such transgenic plants can be referred to as being heterozygous for the added gene. More preferred is a transgenic plant that is homozygous for the added structural gene; *i.e.*, a transgenic plant that contains two added genes, one gene at the same locus on each chromosome of a chromosome pair. A homozygous transgenic plant can be obtained by sexually mating (selfing) an independent segregant transgenic plant that contains a single added gene, germinating some of the seed produced and analyzing the resulting plants produced for the gene of interest.

It is also to be understood that two different transgenic plants can also be mated to produce offspring that contain two independently segregating added, exogenous genes. Selfing of appropriate progeny can produce plants that are homozygous for both added, exogenous genes that encode a polypeptide of interest. Back-crossing to a parental plant and out-crossing with a non-transgenic plant are also contemplated, as is vegetative propagation.

Transformation of plant protoplasts can be achieved using methods based on calcium phosphate precipitation, polyethylene glycol treatment, electroporation, and

combinations of these treatments. See for example (Potrykus *et al., Mol. Gen. Genet., 205*:193-200 (1986); Lorz *et al., Mol. Gen. Genet., 199*:178, (1985); Fromm *et al., Nature, 319*:791,(1986); Uchimiya *et al., Mol. Gen. Genet.*:204:204, (1986); Callis *et al., Genes and Development, 1183*,(1987); Marcotte *et al., Nature, 335*:454, (1988), all of which the entirety is herein incorporated by reference).

Application of these systems to different plant strains depends upon the ability to regenerate that particular plant strain from protoplasts. Illustrative methods for the regeneration of cereals from protoplasts are described (Fujimura *et al., Plant Tissue Culture Letters, 2*:74,(1985); Toriyama *et al., Theor Appl. Genet. 205*:34. (1986); Yamada *et al., Plant Cell Rep., 4*:85, (1986); Abdullah *et al., Biotechnology, 4*:1087, (1986), all of which the entirety is herein incorporated by reference).

To transform plant strains that cannot be successfully regenerated from protoplasts, other ways to introduce DNA into intact cells or tissues can be utilized. For example, regeneration of cereals from immature embryos or explants can be effected as described (Vasil, *Biotechnology, 6*:397,(1988), the entirety of which is herein incorporated by reference). In addition, "particle gun" or high-velocity microprojectile technology can be utilized (Vasil *et al., Bio/Technology 10*:667, (1992), the entirety of which is herein incorporated by reference).

Using the latter technology, DNA is carried through the cell wall and into the cytoplasm on the surface of small metal particles as described (Klein *et al., Nature, 328*:70, (1987); Klein *et al., Proc. Natl. Acad. Sci. USA*, 85:8502-8505, (1988); McCabe *et al., Biotechnology, 6*:923, (1988), all of which the entirety is herein incorporated by reference). The metal particles penetrate through several layers of cells and thus allow the transformation of cells within tissue explants.

Other methods of cell transformation can also be used and include but are not limited to introduction of DNA into plants by direct DNA transfer into pollen (Zhou *et al., Methods in Enzymology, 101*:433, (1983); Hess *et al., Intern Rev. Cytol., 107*:367,

(1987); Luo *et al., Plant Mol Biol. Reporter, 6*:165, (1988), all of which the entirety is herein incorporated by reference), by direct injection of DNA into reproductive organs of a plant (Pena et al., Nature, 325:274, (1987), the entirety of which is herein incorporated by reference), or by direct injection of DNA into the cells of immature embryos followed by the rehydration of dessicated embryos (Neuhaus *et al., Theor. Appl. Genet., 75*:30, (1987), the entirety of which is herein incorporated by reference).

The regeneration, development, and cultivation of plants from single plant protoplast transformants or from various transformed explants is well known in the art (Weissbach and Weissbach, *In: Methods for Plant Molecular Biology*, (Eds.), Academic Press, Inc. San Diego, CA, (1988), the entirety of which is herein incorporated by reference). This regeneration and growth process typically includes the steps of selection of transformed cells, culturing those individualized cells through the usual stages of embryonic development through the rooted plantlet stage. Transgenic embryos and seeds are similarly regenerated. The resulting transgenic rooted shoots are thereafter planted in an appropriate plant growth medium such as soil.

The development or regeneration of plants containing the foreign, exogenous gene that encodes a protein of interest is well known in the art. Preferably, the regenerated plants are self-pollinated to provide homozygous transgenic plants, as discussed before. Otherwise, pollen obtained from the regenerated plants is crossed to seed-grown plants of agronomically important lines. Conversely, pollen from plants of these important lines is used to pollinate regenerated plants. A transgenic plant of the present invention containing a desired polypeptide is cultivated using methods well known to one skilled in the art.

There are a variety of methods for the regeneration of plants from plant tissue. The particular method of regeneration will depend on the starting plant tissue and the particular plant species to be regenerated.

Methods for transforming dicots, primarily by use of *Agrobacterium tumefaciens*, and obtaining transgenic plants have been published for cotton (U. S. Patent No. 5,004,863, U.S. Patent No. 5,159,135, U.S. Patent No. 5,518,908, all of which the entirety is herein incorporated by reference); soybean (U. S. Patent No. 5,569,834, U. S. Patent No. 5,416,011, McCabe *et al., Biotechnology 6*:923, (1988), Christou *et al., Plant Physiol., 87*:671-674 (1988), all of which the entirety is herein incorporated by reference); *Brassica* (U. S. Patent No. 5,463,174, the entirety of which is herein incorporated by reference); peanut (Cheng *et al., Plant Cell Rep. 15*: 653-657 (1996), McKently *et al., Plant Cell Rep. 14*:699-703 (1995), all of which the entirety is herein incorporated by reference); papaya (Yang *et al.*, (1996), the entirety of which is herein incorporated by reference); pea (Grant *et al., Plant Cell Rep. 15*:254-258, (1995), the entirety of which is herein incorporated by reference).

Transformation of monocotyledons using electroporation, particle bombardment, and *Agrobacterium* have also been reported. Transformation and plant regeneration have been achieved in asparagus (Bytebier *et al., Proc. Natl. Acad. Sci. USA 84*:5345, (1987), the entirety of which is herein incorporated by reference); barley (Wan and Lemaux, *Plant Physiol 104*:37, (1994), the entirety of which is herein incorporated by reference); maize (Rhodes *et al., Science 240*: 204, (1988), Gordon-Kamm *et al., Plant Cell, 2*:603, (1990), Fromm *et al., Bio/Technology 8*:833, (1990), Koziel *et al., Bio/Technology 11*:194, (1993), Armstrong *et al., Crop Science 35*:550-557, (1995), all of which the entirety is herein incorporated by reference); oat (Somers *et al., Bio/Technology, 10*:1589, (1992), the entirety of which is herein incorporated by reference); orchardgrass (Horn *et al.,Plant Cell Rep. 7*:469, (1988), the entirety of which is herein incorporated by reference); rice (Toriyama *et al., Theor Appl. Genet. 205*:34, (1986); Park *et al., Plant Mol. Biol.,32*: 1135-1148, (1996); Abedinia *et al., Aust. J. Plant Physiol.24*:133-141, (1997); Zhang and Wu, *Theor. Appl. Genet. 76*:835, (1988); Zhang *et al. Plant Cell Rep. 7*:379, (1988); Battraw and Hall, *Plant Sci. 86*:191-202, (1992); Christou *et al.,*

Bio/Technology 9:957, (1991), all of which the entirety is herein incorporated by reference); sugarcane (Bower and Birch, Plant J. 2:409, (1992), the entirety of which is herein incorporated by reference); tall fescue (Wang et al., Bio/Technology 10:691, (1992), the entirety of which is herein incorporated by reference), and wheat (Vasil et al., Bio/Technology 10:667, (1992), the entirety of which is herein incorporated by reference; U. S. Patent No. 5,631,152, the entirety of which is herein incorporated by reference.

Assays for gene expression based on the transient expression of cloned nucleic acid constructs have been developed by introducing the nucleic acid molecules into plant cells by polyethylene glycol treatment, electroporation, or particle bombardment (Marcotte, *et al., Nature, 335*: 454-457 (1988), the entirety of which is herein incorporated by reference; Marcotte, *et al., Plant Cell, 1:* 523-532 (1989), the entirety of which is herein incorporated by reference; McCarty, *et al., Cell 66:* 895-905 (1991), the entirety of which is herein incorporated by reference; Hattori, *et al., Genes Dev. 6:* 609-618 (1992), the entirety of which is herein incorporated by reference; Goff, *et al., EMBO J. 9:* 2517-2522 (1990), the entirety of which is herein incorporated by reference). Transient expression systems may be used to functionally dissect gene constructs (*See generally*, Mailga *et al., Methods in Plant Molecular Biology,* Cold Spring Harbor Press (1995)).

Any of the nucleic acid molecules of the present invention may be introduced into a plant cell in a permanent or transient manner in combination with other genetic elements such as vectors, promoters enhancers etc. Further any of the nucleic acid molecules of the present invention may be introduced into a plant cell in a manner that allows for over expression of the protein or fragment thereof encoded by the nucleic acid molecule.

Cosuppression is the reduction in expression levels, usually at the level of RNA, of a particular endogenous gene or gene family by the expression of a homologous sense construct that is capable of transcribing mRNA of the same strandedness as the transcript

of the endogenous gene (Napoli *et al., Plant Cell 2*: 279-289 (1990), the entirety of which is herein incorporated by reference; van der Krol *et al., Plant Cell 2*: 291-299 (1990), the entirety of which is herein incorporated by reference). Cosuppression may result from stable transformation with a single copy nucleic acid molecule that is homologous to a nucleic acid sequence found with the cell (Prolls and Meyer, *Plant J. 2*:465-475 (1992), the entirety of which is herein incorporated by reference) or with multiple copies of a nucleic acid molecule that is homologous to a nucleic acid sequence found with the cell (Mittlesten *et al., Mol. Gen. Genet. 244*: 325-330 (1994), the entirety of which is herein incorporated by reference). Genes, even though different, linked to homologous promoters may result in the cosuppression of the linked genes (Vaucheret, *C.R. Acad. Sci. III 316*: 1471-1483 (1993), the entirety of which is herein incorporated by reference).

This technique has, for example been applied to generate white flowers from red petunia and tomatoes that do not ripen on the vine. Up to 50% of petunia transformants that contained a sense copy of the chalcone synthase (CHS) gene produced white flowers or floral sectors; this was as a result of the post-transcriptional loss of mRNA encoding CHS (Flavell, *Proc. Natl. Acad. Sci. (U.S.A.) 91*:3490-3496 (1994)), the entirety of which is herein incorporated by reference). Cosuppression may require the coordinate transcription of the transgene and the endogenous gene, and can be reset by a developmental control mechanism (Jorgensen, *Trends Biotechnol, 8*:340344 (1990), the entirety of which is herein incorporated by reference; Meins and Kunz, In: *Gene Inactivation and Homologous Recombination in Plants* (Paszkowski, J., ed.), pp. 335-348. Kluwer Academic, Netherlands (1994), the entirety of which is herein incorporated by reference).

It is understood that one or more of the nucleic acids of the present invention including those comprising SEQ ID NO:1 through SEQ ID NO:18718 or complement thereof or fragments of either or other nucleic acid molecules of the present invention

may be introduced into a plant cell and transcribed using an appropriate promoter with such transcription resulting in the co-suppression of an endogenous protein.

Antisense approaches are a way of preventing or reducing gene function by targeting the genetic material (Mol *et al., FEBS Lett. 268*: 427-430 (1990), the entirety of which is herein incorporated by reference). The objective of the antisense approach is to use a sequence complementary to the target gene to block its expression and create a mutant cell line or organism in which the level of a single chosen protein is selectively reduced or abolished. Antisense techniques have several advantages over other 'reverse genetic' approaches. The site of inactivation and its developmental effect can be manipulated by the choice of promoter for antisense genes or by the timing of external application or microinjection. Antisense can manipulate its specificity by selecting either unique regions of the target gene or regions where it shares homology to other related genes (Hiatt *et al., In Genetic Engineering,* Setlow (ed.), Vol. 11, New York: Plenum 49-63 (1989), the entirety of which is herein incorporated by reference).

The principle of regulation by antisense RNA is that RNA that is complementary to the target mRNA is introduced into cells, resulting in specific RNA:RNA duplexes being formed by base pairing between the antisense substrate and the target mRNA (Green *et al.*, *Annu. Rev. Biochem. 55*: 569-597 (1986), the entirety of which is herein incorporated by reference). Under one embodiment, the process involves the introduction and expression of an antisense gene sequence. Such a sequence is one in which part or all of the normal gene sequences are placed under a promoter in inverted orientation so that the 'wrong' or complementary strand is transcribed into a noncoding antisense RNA that hybridizes with the target mRNA and interferes with its expression (Takayama and Inouye, *Crit. Rev. Biochem. Mol. Biol. 25*: 155-184 (1990), the entirety of which is herein incorporated by reference). An antisense vector is constructed by standard procedures and introduced into cells by transformation, transfection, electroporation, microinjection, or by infection, etc. The type of transformation and choice of vector will determine

whether expression is transient or stable. The promoter used for the antisense gene may influence the level, timing, tissue, specificity, or inducibility of the antisense inhibition.

It is understood that protein synthesis activity in a plant cell may be reduced or depressed by growing a transformed plant cell containing a nucleic acid molecule whose non-transcribed strand encodes a protein or fragment thereof.

Antibodies have been expressed in plants (Hiatt *et al., Nature 342:*76-78 (1989), the entirety of which is herein incorporated by reference; Conrad and Fielder, *Plant Mol. Biol. 26:* 1023-1030 (1994), the entirety of which is herein incorporated by reference). Cytoplamic expression of a scFv (single-chain Fv antibodies) has been reported to delay infection by artichoke mottled crinkle virus. Transgenic plants that express antibodies directed against endogenous proteins may exhibit a physiological effect (Philips *et al., EMBO J. 16:* 4489-4496 (1997), the entirety of which is herein incorporated by reference; Marion-Poll, *Trends in Plant Science 2:* 447-448 (1997), the entirety of which is herein incorporated by reference). For example, expressed anti-abscisic antibodies reportedly result in a general perturbation of seed development (Philips *et al., EMBO J. 16:* 4489-4496 (1997)).

Antibodies that are catalytic may also be expressed in plants (abzymes). The principle behind abzymes is that since antibodies may be raised against many molecules, this recognition ability can be directed toward generating antibodies that bind transition states to force a chemical reaction forward (Persidas, *Nature Biotechnology 15*:1313-1315 (1997), the entirety of which is herein incorporated by reference; Baca *et al., Ann. Rev. Biophys. Biomol. Struct. 26*:461-493 (1997), the entirety of which is herein incorporated by reference). The catalytic abilities of abzymes may be enhanced by site directed mutagensis. Examples of abzymes are, for example, set forth in U.S. Patent No: 5,658,753; U.S. Patent No. 5,632,990; U.S. Patent No. 5,631,137; U.S. Patent 5,602,015; U.S. Patent No. 5,559,538; U.S. Patent No. 5,576,174; U.S. Patent No. 5,500,358; U.S.

Patent 5,318,897; U.S. Patent No. 5,298,409; U.S. Patent No. 5,258,289 and U.S. Patent No. 5,194,585, all of which are herein incorporated in their entirety.

It is understood that any of the antibodies of the present invention may be expressed in plants and that such expression can result in a physiological effect. It is also understood that any of the expressed antibodies may be catalytic.

In addition to the above discussed procedures, practitioners are familiar with the standard resource materials which describe specific conditions and procedures for the construction, manipulation and isolation of macromolecules (e.g., DNA molecules, plasmids, etc.), generation of recombinant organisms and the screening and isolating of clones, (see for example, Sambrook *et al., Molecular Cloning: A Laboratory Manual*, Cold Spring Harbor Press (1989); Mailga *et al., Methods in Plant Molecular Biology,* Cold Spring Harbor Press (1995), the entirety of which is herein incorporated by reference; Birren *et al., Genome Analysis: Analyzing DNA,* 1, Cold Spring Harbor, New York, the entirety of which is herein incorporated by reference).

The nucleotide sequence provided in SEQ ID NO:1, through SEQ ID NO:18718 or fragment thereof, or complement thereof, or a nucleotide sequence at least 90% identical, preferably 95%, identical even more preferably 99% or 100% identical to the sequence provided in SEQ ID NO:1 through SEQ ID NO:18718 or fragment thereof, or complement thereof, can be "provided" in a variety of mediums to facilitate use fragment thereof. Such a medium can also provide a subset thereof in a form that allows a skilled artisan to examine the sequences.

In one application of this embodiment, a nucleotide sequence of the present invention can be recorded on computer readable media. As used herein, "computer readable media" refers to any medium that can be read and accessed directly by a computer. Such media include, but are not limited to: magnetic storage media, such as floppy discs, hard disc, storage medium, and magnetic tape: optical storage media such as CD-ROM; electrical storage media such as RAM and ROM; and hybrids of these

categories such as magnetic/optical storage media. A skilled artisan can readily appreciate how any of the presently known computer readable mediums can be used to create a manufacture comprising computer readable medium having recorded thereon a nucleotide sequence of the present invention.

As used herein, "recorded" refers to a process for storing information on computer readable medium. A skilled artisan can readily adopt any of the presently known methods for recording information on computer readable medium to generate media comprising the nucleotide sequence information of the present invention. A variety of data storage structures are available to a skilled artisan for creating a computer readable medium having recorded thereon a nucleotide sequence of the present invention. The choice of the data storage structure will generally be based on the means chosen to access the stored information. In addition, a variety of data processor programs and formats can be used to store the nucleotide sequence information of the present invention on computer readable medium. The sequence information can be represented in a word processing text file, formatted in commercially-available software such as WordPerfect and Microsoft Word, or represented in the form of an ASCII file, stored in a database application, such as DB2, Sybase, Oracle, or the like. A skilled artisan can readily adapt any number of data processor structuring formats (e.g. text file or database) in order to obtain computer readable medium having recorded thereon the nucleotide sequence information of the present invention.

By providing one or more of nucleotide sequences of the present invention, a skilled artisan can routinely access the sequence information for a variety of purposes. Computer software is publicly available which allows a skilled artisan to access sequence information provided in a computer readable medium. The examples which follow demonstrate how software which implements the BLAST (Altschul *et al., J. Mol. Biol. 215:*403-410 (1990)) and BLAZE (Brutlag *et al., Comp. Chem. 17:*203-207 (1993), the entirety of which is herein incorporated by reference) search algorithms on a Sybase

system can be used to identify open reading frames (ORFs) within the genome that contain homology to ORFs or proteins from other organisms. Such ORFs are protein-encoding fragments within the sequences of the present invention and are useful in producing commercially important proteins such as enzymes used in amino acid biosynthesis, metabolism, transcription, translation, RNA processing, nucleic acid and a protein degradation, protein modification, and DNA replication, restriction, modification, recombination, and repair.

The present invention further provides systems, particularly computer-based systems, which contain the sequence information described herein. Such systems are designed to identify commercially important fragments of the nucleic acid molecule of the present invention. As used herein, "a computer-based system" refers to the hardware means, software means, and data storage means used to analyze the nucleotide sequence information of the present invention. The minimum hardware means of the computer-based systems of the present invention comprises a central processing unit (CPU), input means, output means, and data storage means. A skilled artisan can readily appreciate that any one of the currently available computer-based system are suitable for use in the present invention.

As indicated above, the computer-based systems of the present invention comprise a data storage means having stored therein a nucleotide sequence of the present invention and the necessary hardware means and software means for supporting and implementing a search means. As used herein, "data storage means" refers to memory that can store nucleotide sequence information of the present invention, or a memory access means which can access manufactures having recorded thereon the nucleotide sequence information of the present invention. As used herein, "search means" refers to one or more programs which are implemented on the computer-based system to compare a target sequence or target structural motif with the sequence information stored within the data storage means. Search means are used to identify fragments or regions of the

sequence of the present invention that match a particular target sequence or target motif. A variety of known algorithms are disclosed publicly and a variety of commercially available software for conducting search means are available and can be used in the computer-based systems of the present invention. Examples of such software include, but are not limited to, MacPattern (EMBL), BLASTIN and BLASTIX (NCBIA). One of the available algorithms or implementing software packages for conducting homology searches can be adapted for use in the present computer-based systems.

The most preferred sequence length of a target sequence is from about 10 to 100 amino acids or from about 30 to 300 nucleotide residues. However, it is well recognized that during searches for commercially important fragments of the nucleic acid molecules of the present invention, such as sequence fragments involved in gene expression and protein processing, may be of shorter length.

As used herein, "a target structural motif," or "target motif," refers to any rationally selected sequence or combination of sequences in which the sequences or sequence(s) are chosen based on a three-dimensional configuration which is formed upon the folding of the target motif. There are a variety of target motifs known in the art. Protein target motifs include, but are not limited to, enzymatic active sites and signal sequences. Nucleic acid target motifs include, but are not limited to, promoter sequences, cis elements, hairpin structures and inducible expression elements (protein binding sequences).

Thus, the present invention further provides an input means for receiving a target sequence, a data storage means for storing the target sequences of the present invention sequence identified using a search means as described above, and an output means for outputting the identified homologous sequences. A variety of structural formats for the input and output means can be used to input and output information in the computer-based systems of the present invention. A preferred format for an output means ranks fragments of the sequence of the present invention by varying degrees of homology to the

target sequence or target motif. Such presentation provides a skilled artisan with a ranking of sequences which contain various amounts of the target sequence or target motif and identifies the degree of homology contained in the identified fragment.

A variety of comparing means can be used to compare a target sequence or target motif with the data storage means to identify sequence fragments sequence of the present invention. For example, implementing software which implement the BLAST and BLAZE algorithms (Altschul *et al., J. Mol. Biol. 215:*403-410 (1990)) can be used to identify open frames within the nucleic acid molecules of the present invention. A skilled artisan can readily recognize that any one of the publicly available homology search programs can be used as the search means for the computer-based systems of the present invention. Having now generally described the invention, the same will be more readily understood through reference to the following examples which are provided by way of illustration, and are not intended to be limiting of the present invention, unless specified.

Example 1

The cDNA library of the present invention designated LIB9, is prepared from *Arabidopsis thaliana*, Columbia ecotype, leaf tissue. Wild type *Arabidopsis thaliana* seeds are planted in commonly used planting pots and grown in an environmental chamber. Leaf blades are cut with sharp scissors at seven weeks after planting. The tissue is immediately frozen in liquid nitrogen and stored at -80'C until total RNA extraction. SEQ ID NO: 1 to SEQ ID NO: 1425 are from LIB9.

The cDNA library of the present invention designated LIB22, is prepared from *Arabidopsis thaliana* Columbia ecotype root tissue. Wild type *Arabidopsis thaliana* seeds are planted in commonly used planting pots and grown in an environmental chamber. After 5-6 weeks the plants are in the reproductive growth phase. Stems are bolting from the base of the plants. After 7 weeks, more stems and floral buds appear, and a few flowers are starting to open. Roots of 7-week old plants from pots are rinsed intensively

with tap water to wash away dirt, and briefly blotted by paper towel to take away free water. The tissues are immediately frozen in liquid nitrogen and stored at -80'C until use. SEQ ID NO:1426 through SEQ ID NO: 5331 are from LIB22.

The cDNA library of the present invention designated LIB23, is prepared from *Arabidopsis thaliana*, Columbia ecotype, stem tissue. Wild type *Arabidopsis thaliana* seeds are planted in commonly used planting pots and grown in an environmental chamber. Stems are collected seven to eight weeks after planting by cutting the stems from the base and cutting the top of the plant to remove the floral tissue. The tissue is immediately frozen in liquid nitrogen and stored at -80'C until total RNA extraction. SEQ ID NO: 5332 through SEQ ID NO: 6413 are from LIB23.

The cDNA library of the present invention designated LIB24, is prepared from *Arabidopsis thaliana*, Columbia ecotype, flower bud tissue. Wild type *Arabidopsis thaliana* seeds are planted in commonly used planting pots and grown in an environmental chamber. Flower buds are green and unopened and are harvested about seven weeks after planting. The tissue is immediately frozen in liquid nitrogen and stored at -80'C until total RNA extraction. SEQ ID NO: 6414 through SEQ ID NO: 11364 are from LIB24.

The cDNA library of the present invention designated LIB25, is prepared from *Arabidopsis thaliana*, Columbia ecotype, open flower tissue. Wild type *Arabidopsis thaliana* seeds are planted in commonly used planting pots and grown in an environmental chamber. Flower are completely opened with all parts of floral structure observable, but no siliques are appearing, and are harvested about seven weeks after planting. The tissue was immediately frozen in liquid nitrogen and stored at -80'C until total RNA extraction. SEQ ID NO: 11365 through SEQ ID NO: 16980 are from LIB25.

The cDNA library of the present invention designated LIB35, is prepared from *Arabidopsis thaliana* Columbia ecotype leaf tissue. Wild type *Arabidopsis thaliana* seeds are planted in commonly used planting pots and grown in an environmental

chamber. After 5-6 weeks the plants are in the reproductive growth phase. Stems are bolting from the base of the plants. After 7 weeks, more stems and floral buds appear and a few flowers are starting to open. Leaf blades are collected by cutting with sharp scissors. LIB35 is normalized by a PCR-based protocol. The tissues are immediately frozen in liquid nitrogen and stored at -80'C until use. SEQ ID NO: 16981 through SEQ ID NO: 18589 are from LIB35.

The cDNA library of the present invention designated LIB146, is prepared from *Arabidopsis thaliana*, Columbia ecotype, immature seed tissue. Wild type *Arabidopsis thaliana* seeds are planted in commonly used planting pots and grown in an environmental chamber. At approximately 7-8 weeks of age, the seeds are harvested. The seeds range in maturity from the smallest seeds that could be dissected from silques to just before starting to turn yellow in color. The tissue is immediately frozen in liquid nitrogen and stored at -80'C until total RNA extraction. SEQ ID NO: 18590 through SEQ ID NO: 18718 are from LIB146.

Example 2

The stored RNA is purified using Trizol reagent from Life Technologies (Gibco BRL, Life Technologies, Gaithersburg, Maryland U.S.A.), essentially as recommended by the manufacturer. Poly A+ RNA (mRNA) is purified using magnetic oligo dT beads essentially as recommended by the manufacturer (Dynabeads, Dynal Corporation, Lake Success, New York U.S.A.).

Construction of plant cDNA libraries is well-known in the art and a number of cloning strategies exist. A number of cDNA library construction kits are commercially available. The Superscript™ Plasmid System for cDNA synthesis and Plasmid Cloning (Gibco BRL, Life Technologies, Gaithersburg, Maryland U.S.A.) is used, following the conditions suggested by the manufacturer.

Example 3

The cDNA libraries are plated on LB agar containing the appropriate antibiotics for selection and incubated at 37° for a sufficient time to allow the growth of individual colonies. Single colonies are individually placed in each well of a 96-well microtiter plates containing LB liquid including the selective antibiotics. The plates are incubated overnight at approximately 37°C with gentle shaking to promote growth of the cultures. The plasmid DNA is isolated from each clone using Qiaprep plasmid isolation kits, using the conditions recommended by the manufacturer (Qiagen Inc., Santa Clara, California U.S.A.).

The template plasmid DNA clones are used for subsequent sequencing. For sequencing the cDNA libraries of LIB9, LIB22, LIB23, LIB24, LIB25, LIB35, and LIB146, a commercially available sequencing kit, such as the ABI PRISM dRhodamine Terminator Cycle Sequencing Ready Reaction Kit with AmpliTaq® DNA Polymerase, FS, is used under the conditions recommended by the manufacturer (PE Applied Biosystems, Foster City, CA). The ESTs of the present invention are generated by sequencing initiated from the 5' end of each cDNA clone.

A number of sequencing techniques are known in the art, including fluorescence-based sequencing methodologies. These methods have the detection, automation and instrumentation capability necessary for the analysis of large volumes of sequence data. Currently, the 377 DNA Sequencer (Perkin-Elmer Corp., Applied Biosystems Div., Foster City, CA) allows the most rapid electrophoresis and data collection. With these types of automated systems, fluorescent dye-labeled sequence reaction products are detected and data entered directly into the computer, producing a chromatogram that is subsequently viewed, stored, and analyzed using the corresponding software programs. These methods are known to those of skill in the art and have been described and reviewed (Birren *et al., Genome Analysis: Analyzing DNA*,1, Cold Spring Harbor, New York, the entirety of which is herein incorporated by reference).

Document Ref: GB 2 354 254 B

We claim:

1. A substantially purified nucleic acid molecule that encodes a *Arabidopsis thaliana* protein or fragment thereof comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 1425.

2. A substantially purified *Arabidopsis thaliana* protein or fragment thereof, wherein said *Arabidopsis thaliana* protein is encoded by a nucleic acid molecule that comprises a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 1425.

3. A transformed plant having a nucleic acid molecule which comprises:

(a) an exogenous promoter region which functions in a plant cell to cause the production of a mRNA molecule;

(b) a structural nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID NO: 1 through SEQ ID NO: 1425 or complements thereof;

(c) a 3' non-translated sequence that functions in said plant cell to cause termination of transcription and addition of polyadenylated ribonucleotides to a 3' end of said mRNA molecule.

4. The transformed plant according to claim 3, wherein said structural nucleic acid molecule is a complement of any of the nucleic acid sequences of SEQ ID NO: 1through SEQ ID NO: 1425.

5. The transformed plant according to claim 4, wherein said plant is soybean or maize.

6. The transformed plant according to claim 4, wherein said plant is maize.

7. The transformed plant according to claim 4, wherein said plant is soybean.

Abstract

Expressed Sequence Tags (ESTs) isolated from *Arabidopsis thaliana* are disclosed. The ESTs provide a unique molecular tool for the targeting and isolation of novel genes for plant protection and improvement. The disclosed ESTs have utility in the development of new strategies for understanding critical plant developmental and metabolic pathways. The disclosed ESTs have particular utility in isolating genes and promoters, identifying and mapping the genes involved in developmental and metabolic pathways, and determining gene function. Sequence homology analyses using the ESTs provided in the present invention, will result in more efficient gene screening for desirable agronomic traits. An expanding database of these select pieces of the plant genomics puzzle will quickly expand the knowledge necessary for subsequent functional validation, a key limitation in current plant biotechnology efforts.

Combined Declaration and Power of Attorney for Patent Application

Docket Number: 38-21(15404)B

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter that is claimed and for which a patent is sought on the invention entitled NUCLEIC ACID MOLECULES AND OTHER MOLECULES ASSOCIATED WITH PLANTS, the specification of which is filed herewith unless the following box is checked:

☐ was filed on _____;
as United States Application Number_____; and
was amended on _____ . (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application, which designated at least one country other than the United States listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)			Priority Claimed
			☐ Yes ☐ No
(Application No.)	(Country)	(Day/Month/Year Filed)	
			☐ Yes ☐ No
(Application No.)	(Country)	(Day/Month/Year Filed)	

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or under § 365(c) of any PCT international application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information that is material to patentability as defined in 37 C.F.R. § 1.56 that became available between the filing date of the prior application and the national or PCT international filing date of this application.

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the

like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Full name of third inventor	
Third inventor's signature	Date
Residence	
Citizenship	
Post Office Address	

Combined Declaration and Power of Attorney for Patent Application

Docket Number: 38-21(15404)B

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the

like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Citizenship	
Post Office Address	

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Residence	
Citizenship	
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<110> Conner, Timothy W.
Ruan, Yijun G.

<120> Nucleic Acid Molecules and Other Molecules Associated with Plants

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cgggtcaaag cggctttcct ttcttgtggg ggttccattg cttctagtat attcangtgt 360

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acaaacgccc agcaagtgaa caacactact cagacgaagt tgaaacttat ggaaacctag 300

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aggaaagtga tgttggcaaa atggtgaaga aaggaagttg gttttctgct atcaaaaggg 180

tttttactcc acattccnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

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tgagtactga tgtggcctct cggatgttgg atggggcggt gaagctccca aaacagttgt 360

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tgtttgagga tgccactccc ganatggtca gggacttctt ttgggatgat gagttccgtt 240

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tgatgccttg tatcttggga tctcctgaaa actcctgata caatcccaag ccaaatgcct 360

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agccaagata agccaaaacc tttgttggtt actcctggtc aactgctgca gtctggatct 180

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gggtgaaatt tgaagtggga gaaagaaaat ccgatgaaaa gattgagcaa ttcaattaaa 360

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tctttggttt cttggcgatg ggagacgaga agccggtgat tgttatggcc aatcgagaaa 180

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tcatggtggg gcagtggcgg ataatatcat cttcaaaggt gaattgcctg attggccctc 180

agatgatgtt ttgaaagaca gagaacgttt ttacgtgatt atgaatgaat cagagtggcg 240

agctactgct tggattctct ggtattggga actgtacttg tgcacatgat aagttcatca 300

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tttggcctcc ggtttagctc gaacacgatc ggagcagcta tatgagacgg ttgcagcaga 180

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ggggaggagt agcggcgccg gaacacacat aaggaagtct aggagcgctc agcttaagct 360

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<211> 393
<212> DNA
<213> Arabidopsis thaliana

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ccacnaggag agtcctcatc gccctccacg agaaaaacct cgactttgag ctcgttcatg 180

tcgaacncaa agacggtgag cacaagaagg agcctttcct ctcccgcnac ccttttggtc 240

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<210> 27
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<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-08-Q1-B1-D10

<400> 28

tcgaggttta gcttcatctg aaactgcgaa tcccgcttat ggaaccgatg gatccaagaa 60

aagtgagtga ttatacaaac catgatggtg gtttttgatc gccggtatta cactttgttt 120

ggtttgcagc tatcagattc tcaacatcat ggcttatttt ggacgagtta ggcagtatct 180

taatagtaac aaagcattag tttttgtact tcttaagtta aaagcttaga acaaaataac 240

actgttgttt tgttctaagc ttttaactta agaagtacaa aacaacagtg ttattttcta 300

taccaagaca caaaaactgt gtcgttgtaa taacacttac cataacattt tctttcagtg 360

tatgtttaaa gccgtttata agggttaaaa aaaaaaacna aaaaaag 407

<210> 29

<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-08-Q1-B1-D2

<400> 29

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnttcttgcc 120

atggccacac atagtctctc cttcttcttc agagttcttc tcctcctctt tcttactctc 180

tcagagagaa ttaaagggca aggtgtggga atcaactacg gccaaatagc aaacaacctc 240

ccatctccgg caagagtcgc cgtgctcctt cgatcactaa aacatcacaa agaagtaaaa 300

ctccaacgaa gcagattcaa acgtcctcct ctcctcctca aaactcacaa agttagattt 360

caatgatnng tttaagnaaa cgaagtatcc ttcaaaacat gtnaacagat tcaaccaaag 420

ctcaaggant g 431

<210> 30
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-08-Q1-B1-D4

<400> 30

cgaaggatag gtgaacgtca aacatctgtg gagattccaa ccaacaataa ggtctcgctt 60

cctccttcca ccatgtcaaa ctcttcaact tttcctccaa tctcagaggg gctaatgcct 120

atagatctcc cagaacagca aaatgagttc aaggtggcct atcctgtttc cccagcatta 180

ccgagtaaga attatgagaa ttcagaagac tctgtcagct ggctaagtgt gccattcctc 240

aacttctacc gttccattaa caagaanttt cctgcttaac tctcagaaag ccttgataca 300

nttgggcgaa gcatagcccc aacctaaatt tcanccttta agagaaggca gaacntcaan 360

ggtgggacca angntacttc tgccccgtaa ggcttaaatg anattggttg ttnccggtta 420

atgaagaatg a 431

<210> 31

<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-08-Q1-B1-E1

<400> 31

cgagcaaggg agccgtcaca cctgttaaaa accagggtat gtgtggttca tgctggtcat 60

ttagtgcgat aggagctctt gaaggagcac attttctagc cactaaagag cttgttagcc 120

tcagtgagca gcagctcgta gattgtgacc atgagtgtga tccagcacaa gccaattcat 180

gtgattctgg ttgcagtgga ggactaatga acaacgcttt tgagtacgct cttaaagctg 240

gtggtctaat gaaggaagag gactatcctt atacaggacg tgaccatacc gcntgtaagt 300

tcgacaagag caagattgtt gcnantgtgt caaacttcag cgttgtcncc tccngatgaa 360

gaacaaatcg ctgctaatcc aatccaacat ggacctccaa ctattgctat ca 412

<210> 32
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-08-Q1-B1-E10

<400> 32

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cacggccatc gagcatcgtc gcaatgagag gactaaaggc gtcaatggtc ttgacaagat 120

catcatccgc gaccgtcgtg gccgatctgc tgaggtttac ttgtatggag gtcaagtcag 180

ttcttggaaa aatgagaatg gagaggagtt acttgttatg agtagcaagg ctatattcca 240

gcctccaaca ccgattcgtg gaggaattcc agtattgttt ccgcaataca gtaacaccgg 300

tccacttccc tcacatggat ttgtaagaca gaggttctgg gangtttaga ctaaancaac 360

tcctttgcca acaatttcca aa 382

<210> 33
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-08-Q1-B1-E3

<400> 33

tcgagctttg gttttgattg gcacgatcca aagacacaca ttttgtcaaa tcattttcga 60

cgactgttat taataattaa ttcgttaatg acgcaccgtt agtcaactcc gcttcgtatt 120

aattactcct ccgatctctt tcttattctt ctccggcgac acttcccttg cttctccctc 180

ttaggactct ctctacgaat ctgtaagctt caaattctta cgccacactc cgagattcgc 240

ttctgattat tgtatgaatt tttgagctcc aagggattca ctgccatgta tttaatgctg 300

gctaaagctt gaaagggaag taatgggatc aacaataaag ttccttgcct tgtnatttaa 360

cctgatttga gaataaacaa atgggaaaag catcaggctg cctccggttc tcctgg 416

<210> 34
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-A6

<400> 34

nacccacgcg tacataaact cggaattcgg ctcgagccgg gattgaagga gtttaaaatc 60

ttcaacaaca agttaaccgg agaaatacct gcagagattg gagttcattc aaagctggag 120

agattcgaag tttcggagaa tcagttaacc ggaaagttac cggaaaattt gtgcaaaggt 180

ggtaaacttc aaggagtggt tgtgtactca aacaatctta ccggagaaat ccctgagtcg 240

ctcggagatt gtggaacgct cttgactgtt cagttacaga acaatgactt ctccggcaag 300

tttccttctc ggatctggga atgcttcaag tatgtataag tctacangtg agtaacaact 360

cattcaccgg gagagttacc gggagaatgt tgcctgggaa taagtcnaag gatcgangat 420

tgataacaat cgattttccg gtgagattcc gaan 454

<210> 35
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-B1

<400> 35

ccgacncgta cgtaaactca agaattcggc tcgaggccaa aacgtcaaga tgctaacaac 60

ccttgtagtc taaccactcc caagatttaa gaattttctt acttttgttc taagttttgt 120

tgagaaaaag atgcatccga tcttcgatgc catccttcaa aatgaccttc cagcttttct 180

tggtttggtg gaagcgagag aatcttccct ggaggagaga agcgaggaac agaacaccaa 240

caacacggtt ttgcacgtag ctgcaaagct cggtcaccga gaactggtcg ccaagattat 300

tgagctccga ccttcccttc tctcttcccg taacgcgtac ggagacacac ctttgcatct 360

tgctgctctt cttgggagac gtaaacatag ttatgcagat gttagacact ggattggaac 420

tatattccgc acgcaataac aagaaccaaa cacct 455

<210> 36
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-B2

<400> 36

atgatcttnt ggaggtcaga agagaggagn cgtcgngncg accccgtacg tacaactaaa 60

gcattcggct cgagtggaag tgtattccga tgagattaga attggttcaa gaacagatta 120

nagccacggt gaatgagtta aagacaatgc ctaatggagg atgatgcata aggaaagact 180

acaatgggtt ctttaagtta tgagaaaatg atgaagaaag attatgatgg tgaggtatag 240

tattagcaaa agtaataatc ttaatgaaaa tttctgatgg tgatgaaatc ttttttaggg 300

ttttagtatt tttttttctt gattgaatct ttttttaatt ttgtcgatta ggagtgaata 360

acctttgttc ttagctgata aattatagtt tttggtaaag ttcaaaanna aaaaaaaact 420

cttttgtgcc aattaanaan gttttttttgg tgtgangcat ataaaaatng atattacaca 480

atccaatgg 489

<210> 37
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-B3

<400> 37

acncgtacgt aaactcaaga attcggctcg agatcttcag aaggagtcca cactccactt 60

ggtcttgcgt ctgcgtggag gtatgcagat cttcgtgaag actctcaccg gaaagaccat 120

cacnttggag gtggagagtt ctgacaccat tgataacgtg aaagccaaga tccaggacaa 180

agagggtatc ccaccggacc agcagagatt gatcttcgcc ggaaagcaac ttgaagatgg 240

aagaactttg gctgactaca acattcagaa ggagtccaca cttcacttgg tcttgcgtct 300

gcgtggaggt atgcagatct tcgtgaagac tctcaccgga aagactatca ctttggaggt 360

agagagctct gacancaatt gacaacgttg aaggccaaag attcaaggat aanggaaagg 420

aatccctccg ggaccaagca naaggttgat cttttgcccg g 461

<210> 38
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-C2

<400> 38

ctcgagcgac gacgacgacg gagatagccg taatcttaga cataataata ataacaattc 60

gagtgaccaa attgagataa ttacaacaga ccaaacagat gataaaacaa aaccaatctt 120

ctttgatttc atgagaaaag aaagaacaac agatttgaac cttttgccga gctctccttc 180

ttccgatcat gcttcaagtg gagtcacgac ggagatcttc tcttcttccg atgaagagac 240

cagtagttgc aatagtttca gatgaaatct ttaatttaat tttaatgttg actatcttaa 300

taagttatta tagttttata ttaatacgac tctccttcct ttttaatcca atttttactt 360

gaaaacgaaa aanannaaaa aaaaaaaggg 390

<210> 39
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-A4

<400> 39

gtcggaccga cncgtacgta aactcaagaa ttcggctcga gctgattaat gcggtggcgg 60

cggcgaggat tttatccgga atcggacaat ctaacggtaa taacggagga gaagcgattc 120

cgtttggatc gtttgagtgg atcacttacg ccggaatatc ttgtttcctc gtactcttcg 180

ccgggattat gtctggtctt actttgggac ttatgtctct tggtcttgtc gagcttgaga 240

ttcttcaacg tagtggtact cctaatgaga agaaacaagc cgctgcgatt tttccggttg 300

ttcagaaaca gcatcagctt ttaatgacac tgcttctgtg taatgctatg gctatggagg 360

ggcttcccta taatatttgg gataagttaa tcantgaaat acgttgcgaa taanccttttc 420

tgtcacattc gttcttgctt tccggtgaag gttattcccc a 461

<210> 40
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-C7

<400> 40

tatagaaact gntgacgtcc nacccacgcg tacataaact cggaattcgg ctcgagatcc 60

aaagaacctg gtaccgagag tgctgatgtg tctttacacc aattagctga tatccagccc 120

gggccatcca ttttggttga tcaaatggat actgaaaaat ccaaagaacc tggtaccgag 180

agtgctgatg tgtctttaca ccaattagct gatatccagc ccgggccatc cattttggtt 240

gatcaaatgg atactgaaga attcaaaaat cctgatgtgt ctttacacca attagctgat 300

attgagccct cactgtctat ttcagctgtg caaaagaata ttgaggataa ggatcaaagt 360

cacgttgaaa ctgctgggat ctgagttagt tgatgtctct gccgaatgtt caacagaacc 420

tcaagttcaa ttaccgccat cttcagagcc agtgggaaga tatgcacgtt 470

<210> 41
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-D2

<400> 41

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gccgccggta acatttcccg gcgacaaaac ttctctannc ncaccattcc tccatcgtaa 120

tctctaaatt cttctccatt ctcttcttcc tcccgatcat ctcgagctct tcgtgagaga 180

ttatgtgatt atgtaatcgt tgttgctgta gaagacgatc tctaacaact gattccttca 240

tcatcacctt cgctagattt gtaattttca gagcttgaga tgttggatct taacctcaac 300

gctgattctc ccgagtcgac tcagtacggn ggtgactcat acttagatng ggaagacatc 360

agacaaatcc ggccgggaat cnaattggaa naatcccggt aaatcgaagt cgtcangtta 420

aca 423

<210> 42
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-D4

<400> 42

ctcgagggaa atgatcgaaa gagggctatc tccaaggaga aggcctgagt tggtagaaaa 60

gtccttggac gaaacgcttg tctgtagaga atagataact agatatgaag aaactctttg 120

gttatgtgtt caaaacagac atgaagcaat agagaagcgt ccttttggat ggagaaatct 180

ccccaaggta tatcatcttt gccataaagt ggctttgttt caactcaaaa ccgaggagaa 240

aacactgagg ttcattgaga aatctggttg agttgtgtgt cttaagccaa attccgaaga 300

tttggttttg aaagatggtt tgtcccctcc taaaagtgtt ctactacata tacgtnccaa 360

tttgtaantc actctccaac ttaantttt tttggtggtt gttccactcc ggtgacaacc 420

ac 422

<210> 43
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-D8

<400> 43

tgacgtcnga cccacgcgta cntaaactcg gaattcggct cgagaaaaaa aaaaattaac 60

tcgttaattt tttttgaata ttttcgtttt tttaccggga ctcgtctttg tcacattccc 120

tttctttgtt ttncaaaang atgataaacc ctttcaattt ttttatttca aattgaactt 180

cgtacttgtt ttctctatat tgatttctat tgtttattta aggttcttta gaaactcttt 240

ttgtaaagaa tcgaagtttt ttacgatact tcatcaagat gattgtacaa ggaaagtana 300

ctactaggtt ttataaagga aagnctggaa aaagaaggat aaaggaactt tttttttatt 360

ggatcgggaa tcctcattaa ngtaatcggg tgtggataaa aagatctccc taaggttata 420

cnagntaaat tcttgganga atgaatccna ttttaaaag 459

<210> 44
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-E1

<400> 44

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gagtttttgt ccatcatctt gtggctccgt tagccaagat agctagcttc tgtctggcaa 120

atctagcttc tataagcagt tttggtgtta gtcacttaaa atcaatctat cgacttgtat 180

ctctggaagc tcgatcttgc aaatcgcnta aagtaaagag aanaagagtt gtttccagca 240

aatttggatt gccatanccg tctctagttg tttttgaatc tggtgaaaaa caaagtaaat 300

cgatgtttaa gaaatttaca gcatcgattg aggttcacca agaatcggaa tcgttgacga 360

caaagattaa ccgggatgtt taacgcatct nctcatacnt gtccgttttt aatacatttt 420

tggagttgta ngcctgaacc tgt 443

<210> 45
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-06-Q1-B1-E4

<400> 45

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acttgccgtg gctgaaggtg caagagccag aggagcctct aaaatcattg ggatcgacat 120

caaccctgac aagttccaac taggcagaga agcagggatt agtgaattca taaatccaaa 180

ggagagtgac aaggcagttc atgagagagt aatggagata acagagggag gagtggagta 240

cagcttcgag tgtgcaggaa gtatagaagc acttagagaa gcctttctgt ctacaaactc 300

aggagtggga gtgactgtca tgctgggcgt tcacgcaagc ccacagcttc tccctatcca 360

tcccatggag ctcttccaaa ggcagattca tcaaccgcct cctggtttcc ggagggcttc 420

aaaa 424

<210> 46
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-E5

<400> 46

ctatagacaa catntgacgt ccgacccacg cgtacntaaa ctcggaattc ggctcgagca 60

ccgaccggga tgaatccgtc acttctttaa ctaatacgaa ctccagtttt gagtttccta 120

taatgggtgg ttccgattta ctacctggtt tctcaaatgc tttcgctcgg tgggtattct 180

ccgcaagagc atggtaaaga gggtctggag aaagaaatga gccttgcaca ggaaggtaac 240

ggtggttact tggcaggtac ggcagggttg aacagagtcg taataacagg aaaagcacag 300

aataacagtt acatcttgta aatatccgac tcataccttt gtaaagatcc acgnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnaagca aaatagattt caatcctggt 420

ttttcaccan canccacaaa gtttgattct gtttttccgt ttttggtaaa n 471

<210> 47
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-E7

<400> 47

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aaaattaccc taaattcaca aagattcata cttttctcca cctccaatgg attcnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc agggatgtta atgagtcacc acaattccta 240

caatcgaaac cctaacgccg ccgccgctgt tttaatgggt cacaacacct ccacatctca 300

agctatgcat caaagattac cttttgggtg gttctatgtc accgcatcaa gcntcaacaa 360

catcaagtat catcatcctc aagcctcagc aacaagatag atnaagnaga ctccttggaa 420

tcctcttgga tttgatggga ttcgcccttc ttctggttgc cggccantca aaa 473

<210> 48
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-F1

<400> 48

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taatcagata ttttctgggc ttcactttaa ctctcttcgt gcttggtttt ccgatcttag 120

tcgttactaa ttgagtcgga gactgttcat ttcctgattc tgaagaaagt tttggagaag 180

gagaagatgt caactctgcg agtgagctag ggtttagtgt gttttccgat ttttgagctc 240

ttggggattg ttgttttctc ttaaagagtc gattttgaat ggcggtggag tatgtatgtt 300

gcagcccaaa cttctttata catatanctg tgaatgtgtt cctgtcctgt tcgctggact 360

catgtctggc ttaacattgg gtctaaagtc cttgagtcnc cgttgatctt gaagttccc 419

<210> 49
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-D5

<400> 49

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tgttactatc tatgttcctc gcaaacttta tcaccgatct tgaagcttct tctcatcaag 120

atctcaacca accgtaccgg accggttatc actttcaacc tctcaaaaat tggatgaacg 180

atcctaatgg accaatgata tacaaaggaa tataccatct tttttaccaa tataacccat 240

acggtgccgt ttgggatgtg agaatcgtgt ggggacactc cacgtcagtt gacttagtca 300

actggatttc acaacctcca gctttaatcc atctcaagcc gtcagatatc aacggttgtt 360

ggtcaggctc ccgtcacgan tctaccaaac ggnaaaactg tgattctcca caacgggcat 420

tgaccaaaac 430

<210> 50
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-D6

<400> 50

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ggaattcggc tcgagcgcca ctaaggatct ccacgatgcc attgcatctg gcaactaccc 120

cgagtggaaa cttttcatcc agaccatgga tcctgcagat gaggataagt ttgactttga 180

cccacttgat gtgaccaaga tctggcctga ggatattttg cctctgcaac cggttggtcg 240

cttggttctg aacaggacca ttgacaattt cttcaatgaa actgagcagc ttgcgttcaa 300

cccgggtctt gtggttcctg gaatctacta ctcagacgac aagctgctcc agtgtangat 360

ctttgcttat ggtgacactc agagacatcg ccttggaccg anttaattgc agcctccaat 420

caatgctccc aaatgtgctc aacaacaaac aatcaccatg gaaggtttaa tgaacttcaa 480

gccacaagag gatgang 497

<210> 51
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-D8

<400> 51

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tatctccacc atgatctcac tccactcatc agccattaaa gcctctctct acggctcttt 120

cccttcttcg ttacgatcaa cactctctgt ttccttctct gctggatctc ttattcggct 180

tccttccgtc ggcaagcgca atctctccgt cgtcgtttcc tctggaagag actcctcgat 240

gtcatcaaac aatgtttctc gcggatcgtc ttcaaaggtt gctgctgaat ctttcttcag 300

gagtgtctta gggcagatgg aaactgttta cctaaatcga aacccgacgc ctaaatccgt 360

cctggagctt gttcgatncg ttgatgaaca acaactttgg caatgattaa ccccgccttt 420

aana 424

<210> 52
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-E12

<400> 52

tatagaaact gntgacgtcn gacncacgcg tacntaaact cggaattcgg ctcgagcaca 60

atcctccaac ccgcgatcga ttacatggct tattcatcgg cgatcatgtt caatgctgac 120

aaagaccgac caatcgttta caacacgatt caggcgtact tgagagacgc cggtgagaga 180

ctgcatttgg cagtacaaaa tgctgagaaa gagaatgttc ctatggggtt caagttggtg 240

agaggggctt acatgtctag cgaagctagc ttggcggatt ccctgggttg caagtcgcca 300

gtccacgaca caattcagga tactcactct tgttacaatg attgtatgac attcctgatg 360

gagaaagcat caaacggttc tgggttccng tgtcgttctc gccaacacat aacgctgant 420

ccggggaaaa ctttccttca aggaaa 446

<210> 53
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-E6

<400> 53

ctcgaggttc tttctttgtc tctgagtttt agcttttta ttgacctttt tcttcttggt 60

ttcttctctg catctcaaag actaaaaggc tttagcaaaa accgaccagc tgagaagatg 120

tcttcatcgt acaacacaat tgctttgtcc tccactccga ccttcctcct ctcaagtgcc 180

gctgccggac ccggaccaaa caactttaac cgtcaagagg ctgcgatgac catggttcaa 240

caacaaccca cttcctccgt tgctccacca cccaagaagc gaaggaacca acccggaaac 300

ccaaatccaa gatgctgaag tgatagcgtt atcgccaaag acgataatgg cgacgaacaa 360

gttcctaagt gaagtgtgca acaaaanggg ttcaagaagg gaaanaatc 409

<210> 54
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-D2

<400> 54

ctacgtaagn acggaattcg gctcgagaat ctgaaatcct ctgtcgagaa agaagccgtc 60

gacgatatct gtacggacgc gtccgccgac gccatcggaa gcttcgagga gtaggaaagg 120

gattcgtttg gaggtgagct ggtttgcggc ggctaaacca gcgagtccag cgccgatgat 180

gatgacgcca gtttgattct tccgaatgta cggatcttcc gtggaagatt gagctccgga 240

aaagcgttga tatcggtgat ttgcatggcc gcggcggcga gggaagaaat gagaagtaga 300

tgaggttggg agaganatng ccacggggca ttttaaaagt ttgggataaa gggttttcct 360

cantccttta ctttaatttc cccggggaaa aattatttgt ccaaganaaa ataatatata 420

tatantcaaa ataattattt aaaagaattc gantaa 456

<210> 55
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-E9

<400> 55

atgacgtccg acccacgcgt acataaactc ggaattcggc tcgagttccc tttcatattc 60

cttttccttt tctcattcct cactagcttc agagcttctg ctcaagatcc tcgtttccta 120

gcctattatt gtccaaatgc aacaacttac tcaagtaaca gcacttactt gaccaatctt 180

aaaacccttt tgtcctctct ctcttcccgc aacgcctctt actccaccgg attccaaaac 240

gccacggtgg gacaagccct tgacagggtc accggacttt tcctttgccg gggagacgtc 300

tcgccggaag tttgccgtaa ctgcgtcacc tttgccgtca acaacacctt tagtaggtgt 360

ccgaatcaga gagaagctgt gttctantac gaagaatgca tantcaag 408

<210> 56
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-F12

<400> 56

ccgacccacg cgtaaataaa ctcggaattc ggctcgagaa tcaagacttg tgattacttc 60

atcagacaat aacaccccag tggattctgt actttcctct gattcaattt gcatcaatgt 120

gtcagttgat gatatccgag ttggagactc gctattggtt ttgcctggtg agacatttcc 180

tgtcgatggg agtgtcctag ctggaagaag tgttgtagat gaatctatgc tgacaggaga 240

gtcacttccg gtgtttaaag aagaaggctg ctcagtttca gcgggaacaa ttaactggga 300

tggccctcta cggatcaaag cttcttctac tgggttccaa ctcaacgata tctaaaattg 360

tcagaatggg ttganggatg cacaanggta atgcaactcc ggtacaanag gctg 414

<210> 57
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-F4

<400> 57

ccggcctacg taagnacgga attcggctcg agcaattcaa aaacttcacc accgagcaat 60

ctcgccggaa acagagcctc tcttcttcac cgccgtattt tcttcttctc cagaaatgtg 120

ggattgaaga agttgacgaa gaagacgaag tttaacaatg gctccagtga aaaaatcaga 180

taagaaagca acattagatg ctgctgcttg gatgttcaat gttgttactt ctgttggtat 240

catcattgtt aataaagctt taatggctac ttatggcttt agctttgcta caacgttaac 300

cggtttacat ttcgccacta cgacgttgat gacgcttgtt ttaagatgtt taggatatat 360

acaaccttct catcttccat ttacaagagc ttcctaagtt taatccggtt tgcnaaattt 420

tccgaatggt gggaatgaat ggttagccta agtgg 455

<210> 58
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-F6

<400> 58

gacggncaag agcacacagn nacgncccng gcacgcgtac gnaagancgg aattcggctc 60

gaggtcaata aaaatctctt acaaccacaa caacttctca gattcttctt cgctttgttg 120

ttcgttctct tcttcaagct ctctgtctct ccaaatgggc gacaccggta gacacaaatg 180

gttctccttc caccaccacc gttcagcctc cgccacaact atgccacanc anaacagccc 240

cggngaaact ccaacagagt tcctctgtcc catcaccggn tttttgatgt cagaccccgt 300

cgtcgtcgct tctggtcaaa catttgaacg tatctccgtc caagtttgcc ggaatctcaa 360

gtttgctcca aagcttcacg acgggnactc aaccaagatt tatccaccgt tatcccaaat 420

ctcgccatga aatcaacaat tttnaagctg gggcgattgg gaacaaatgg gacatccccc 480

gtcc 484

<210> 59
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-G11

<400> 59

aatttccagn cggactatag aaantnatga cgtcngaccc acgcgtacnt aaactcggaa 60

ttcggctcga ggttgaccgc gacgaatccg tcggaaaccg gaatcaccat ggattttcct 120

ccgacgaagc ttgattatca tgtagacatg ttcaatcttc agtctcattc cagatttctc 180

tccttattta aggcgcaaga tggacgcata gctctaatac tagaatcaac ggtgtttcat 240

ccacaaggtg gtggccagcc gtcagacacc ggtttaattg ttttctccgg ttcggatttg 300

aaattttccg ttcaagatgt tcgatcgaaa gacggaattg ttctccatta cggagttttc 360

gaaggttcga atcctgaaag tgggattgat agtgagaaag ggaaagaagn ttactaactg 420

gttgatgaat caaagggtaa aaccaaattc aagg 454

<210> 60
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-G12

<400> 60

atctgctcgn tcaagagtta ngatgangag gcccggncnc acgcgtaagt aaactcggag 60

attcggctcg aggttaatat gtctaaagag aaatcatatg taattgctct tcttctatct 120

ttgcttctct gtctttcttt tcaagttggt gtctctgagg ccaactacaa cgcagttact 180

acaaggtact cggattctcc tcgatgcgcc aatggatctt ctgcaagtcc accaacaaga 240

cactgtccaa gggggcgtcc ccgtcctcct acaccgagag tagcggtgca ctctaactca 300

accaaaggaa aaggcccatn agtgatgaaa ttattttatg tctcaacact atgatttttg 360

tacttaattt ggtgttaaat ttacaaggca aaggagattc aaatcctttg taaatcagat 420

naattacatt aaagaaacaa atcaaaaacn 450

<210> 61
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-G4

<400> 61

ncacaggccc ggcctacgta agaacgnaat tcggctcgag ctgctaaaat cgcgaaagag 60

atatcttacg aatctccaca agtgcgaatt tcgaacggag ctacgattcc atggcgacca 120

acggagagaa ggtcacggct acggtggtga atggcggagg gctatctact ggtgaaaacc 180

ctaagaaaat tgtagacctc aacactacgg agttagatcg tactgacgac attctcgacg 240

gagaagtcaa gggattttca gattctggtg aaaagaagga agaaaccgac tctaatggta 300

ttggatcgac ggctggtgtt gattctgggg atatctctcc ggtcgatgat atccaagaag 360

aagattcgac gtgctgaaaa gtttggtgtt tccgtgaaaa ttgaccgaag aggaaaaacc 420

ncaattctcg tgcctgaaag gttttggtac ng 452

<210> 62
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-G6

<400> 62

ctcgagatct ggtttaagcc ctcactatcc tctctctcaa atcgcggagt ctccgaagtt 60

tctctgtcag acaaaatgca gtcgtcaacg tangcggtta aaggaaacgc tgcgtttgcg 120

tttcagagac ggaccttctc ttctgacaga tcgacgactt ctaccggaat tcgcttcgct 180

ggttataaga gcttagccac caccgggcca ctctactgtt ctggttctga agccatggga 240

gcgacgcttg ctcgtgctga taacgggatc cagagcgtta tgagtttctc ttctgtcaaa 300

gctcgatcgg tcagagctca agcctcatct gatggagatg aagaagaagc tatacctctg 360

agatctgaag ggaaaagctc tggaacagtt ttgccntttg gttggtgttg cctggtcttg 420

gtg 423

<210> 63
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-H10

<400> 63

atgatccatc tgtacgttcg aagagatgac nnntgangtc ggacgcacgc gtaantaaac 60

tcggaattcg gctcgagggc gacgacgacg agttgttcgc ttctcctttc ttccactctc 120

ttccttcact ctcctccttc ttctcacctc tccttcttca atctctcttc ttcacgatcc 180

tctccaattt ctctttaccc aatccgatcc aaacgctatt tccgaatcct ctcgaagctt 240

tcactaaacg acaacaacag agacgacgat gatgatactc ttcattttac tccgttctcc 300

gccgttaaac ctttcttcct cctctgtacc tccgtcgcgt tatcgttttc actcttcgcc 360

gcttctcccg ccgttgaatc tgcctcggcg tttgtagtta gtactccgaa gaaacttcaa 420

actgatgagc tcgcgaangg tcgctgtttc aagaagaaaa atc 463

<210> 64
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-A10

<400> 64

gatatgacgt ccnacccacg cgtaaataaa ctcggaattc ggctcgaggg ctgaagagaa 60

atttgcagaa cctaaagaag tagagaaact tgtgataact cctgtgaaga aagaactggg 120

tcttgcattc aagggaaatc aaaagaatgt ggttgaatct ttggaggcga tgaatgagga 180

agaagctatg gagatgaaag caaccctgga atccaaaggg gaagtggagt tttacgtgtg 240

taccctaaag aaaagcgtga acatcaagaa aaacatggtg tctatatcaa aggagaagaa 300

gaaagagcac cagcgggttt tcactccatc agtgattgaa ccatcgtttg ggattggtcc 360

gatnatatat tgtccgtatg ancaattgtt cancacaaag gcaanccaaa caaggggata 420

accatttnaa 430

<210> 65
<211> 214
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-A3

<400> 65

cccagntcct agaacagcac agacaggccc gcctacgtaa gnacggaatt cggctcgagt 60

gggggttgca atatatattt ttttatagat ttattcagtg taaaattaat acatgtacat 120

gatatatact atatatctgt tgaatatggt gagtagagac aatgtttata atatactgta 180

acagttttta tccacggaca aaaaaaaaaa aaaa 214

<210> 66
<211> 206
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-A4

<400> 66

cnaaattcgg ctcgagtata ccacgtcaca cgctggatga agttccgata gaatttcttc 60

tgcagaaggt tatctaatgg gccttttttg ggctttatgt aattccaaag ttggagcttt 120

tgtttaagct cttgtatgat atgatgatgt ttnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnn 206

<210> 67
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-A9

<400> 67

taaaggatcc cctcggggaa ttccaattcc acattttcaa gaaataagga ggcaaaaatg 60

ttcatatatg aattggaatt atttgttttc ttattaggcc tatcctgaag ccaanggaaa 120

tgagatcgga attcctcggg gaattccaat tccacatttt caagaaataa ggaggcaaaa 180

atgttcatat atgaattgga attatttgtt ttcttattag gcctatcctg aagccaaagg 240

aaatgagatn ggnattcctc ggggaattcc aattccanat tttcaagaaa taaggaggca 300

aaantgttca tatatgaatt ggcattattt gttttcntat tangcctatn ctgaagccaa 360

aggaaatgnt atcggnantc ctccgggggt ancgagctcg aatt 404

<210> 68
<211> 439
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-B10

<400> 68

agaaaacncg tgacgtccga cncacgcgta cntaaactcg gaattcggct cgaggttgac 60

atgacgattt cttttactac tagccaaatc atttaataat cagtcacaaa gaggaagaga 120

aatgtgttca ttagagaaac gtgatcgtct tttcatacta aaactcaccg gcgacggcga 180

acaccgtcta aacccaacct tactcgactc tctccgctcc accatcaacc aaatccgatc 240

agatccatca ttttcacaat cagtactcat cacaacatca gatggtaaat tcttctccaa 300

cggctacgat ctcgctttag ccgagtcaaa tccttctctc tctgttgtaa tggacgcaaa 360

acttagatnc ttagtcgccg atntaatctc tcttcctaan gcaacaatcg ncggcgtnna 420

aaggtaagnc ttcggcggg 439

<210> 69
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-A1

<400> 69

gcccnggccc taccanaaac gncgcaggcn cgcgtacgta agnacggaat tcggctcgag 60

agaaaagcaa aaaagccaga tcacaatctc aaactcgctt cttcttcttc ctcactctct 120

tattaggttc agttcctttt cgattcttcg tgtggatcgc tgtcggtaga tttccgattt 180

ctttaggttc tgctcgaaat cgtggtttag tgtttattat catcgattca gaaaacggtg 240

ggtaaacttg tagcggaaga tgaggcggtg gccggtggat caccggcggc gaggtagaag 300

gagattgtcg agttggatat ggtttctcct tggttctttc tctgtcgctg ggtttagttc 360

tcttcaccgn tcaacantat caaccaacaa caaagattca tcccagcttt taacttgaga 420

gagacacaag aaccgaaatg gnatcccctc cccaattaaa cttcacggga agaggcaaca 480

agtgcttcct cccc 494

<210> 70

<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-05-Q1-B1-B11

<400> 70

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cgtcgttaat cttgcgggtg gaccacaata cgacgtggaa ttgggaaggc tagatggact 120

atcatcaaca gcggctagcg tcggagggaa gttgccgcat ccgaccgacg atgtcaataa 180

actcacttca ctcttcgcca aaaacggcct tagccttaac gacatgatcg ctctctccgg 240

ggcacacaca ttaggattcg cgcattgcac aaaagtgttc aatcggatat acactttcaa 300

caagacaact aaagtggatc ccacggttaa caaagattac gtgacagagc taaaagcgtc 360

gtgtcctcga aacatagatt caagagtggc tattaacatg gacccaacaa caccaaagac 420

aattcgaca 429

<210> 71
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-B12

<400> 71

atagaaanac atgacgtccg acgcacgcgt acntaaactc ggaattcggc tcgagatatt 60

tgctaaccac agcatgatgc gtttcactgc aaacgccaac acgatccaca taatagattt 120

cggaatatct tacggttttc agtggcctgc tctgattcat cgcctctcgc tcagcagacc 180

tggtggttcg cctaagcttc gaattaccgg tatagagctt cctcagcgcg gttttagacc 240

agcggaagga gttcaggaga caggtcatcg cttggctcga tactgtcagc gacacaatgt 300

tccgtttgag tacaacgcaa ttgctcagaa atgggaaacg atccaagtcg aagacttaaa 360

gcttcgacaa gggagaatat gtgggttgtg aaacccttgg ttccgtttta aggaaccctt 420

ctaaatgana ccgttc 436

<210> 72
<211> 473

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-B2

<400> 72

tgagcacana atcgcaggcn ngcctacgta agcacggaat tcggctcgag aagacttcta 60

cagacannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnngggt cagtggtctt 300

atgttagcaa gccacactag tatcaggcac ctattcaagc aaatgtttga gccaatatga 360

taaagttgag ggaaagaagc aagcttttct agacaattac cgggaagttt cccatgtttg 420

ctgacatgat cttcagagtt tgacgaatca aggacataat tgaaatttgg taa 473

<210> 73
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-C1

<400> 73

ccgcctacgt aagnacggaa ttcggctcga gtcctcaggg gaacacgtga tgaagcagcc 60

aaatccggtt gaaccggtaa tggatcatgc tgggctagaa gcttggattg agcaaatgca 120

gctcgatcag cttgtggctc agcagaattg agagacctaa ccaaagaatc acatgttctt 180

gtctggtctc tctatgtggt agataaaaac ctctttttta caggtggtgg tggtagaagg 240

gtaacaagat taacaaagaa gagaagagaa gaaagaagat ttctttgttt ttggtcaatt 300

aattttcaca aaaaacagtt ttttttttt atttananaa agagaaggga acaattccaa 360

gaaaaagggc ttatgggaaa gaaaaggaga ttaaacaaaa accnttcttg gggtttcctt 420

cccccaattt tcaaattttt tttaagggat tcctttctcc cantaa 466

<210> 74
<211> 437

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-C10

<400> 74

agtncactga tgacgtccga cncacgcgta nataaactcg gaattcggct cgagctcgag 60

gagctcaaga aggtgggtga ccctgttgaa gtgcgttaca aggagtcatt ggaaagaggg 120

tcggtcattg atcagcttgg ttactgtatt aacagctaca gagaggcagc tatgtctact 180

gatcccaagt ttgatcacat tgaattggca gagaagcaaa aggttttgaa cgagtgtgtg 240

gaagcagaag catggctgcg gggaaagcag cagcagcagg acacacttcc caagtatgcc 300

acaccggctc tcttgtcagc tgacgttaaa agcaaggcag aggcattgga caagttttgc 360

aggcctataa tgaccaaacc aaagccggtg gctaaagcaa naggancaca agncaaagga 420

aggtaacnag gcggatt 437

<210> 75
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-C4

<400> 75

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gaggcagacc gagtagaact actggttcag gatactggaa agcaactgga tcacctggtc 120

cagtcttttc caaagacaac aaaatgattg gagcaaagaa aactatggtt ttctacactg 180

gaaaagcacc cacaggaaga aaaactaaat ggaaaatgaa tgagtaccac gccgttgacg 240

aaacagtcaa cgcttccaca atccctaagc tgagacgtga gttcagttta tgtcgagtct 300

acataacaac aggaagctcc agagcttttg atagacgtcc tgaagggagt tttgcagaca 360

gaagagaatg ctaacaagtg atgttgcagt agctgagaca tccgttccct tgtggaaagc 420

tcactgggaa acttcaattt caggaggaga acatattgat gtcn 464

<210> 76
<211> 443

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-C5

<400> 76

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gaagataagc tgatagaaac caaaagcaaa aacgtttctg gaaaatctca gaaacagaag 120

aaaccagtag aagcagaaag cttaaaagag gaagaccttc tacaagcatc cggaactgat 180

tctgattacg acggagatag tttgcctggt tctttgaatt ccgacgattt cgactccgat 240

ttttccgatt cagaggatga tggaacacat gaaggaacag aagatggaga tgtagaattt 300

tccgatgacg acgacgtgcc ttgagcatga tggggtcaaa ttgataacga aggatgatga 360

tgggaagttg aacatgttag gtattgacaa taaatgagga acattgggaa ntgatgaaag 420

attctgaacc aaaggtgaag ccg 443

<210> 77
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-C6

<400> 77

tcgagaacca cttgaaatct ccctcccaga gtaagaactt ccatactttg ctctagattt 60

cttgagaaaa gatgcagccg atcttccatg cgatccttaa aaatgacctt ccagcttttt 120

tagagttggt agaagatagt gaatcgtctc tggaggagag aaacgaggaa gaacacttga 180

acaacacggt tttgcacatg gctgcaaagt ttggtcaccg agaactcgtc tccaagatta 240

ttgagctccg accttccctc gtgtcttccc gcaacgcata cagaaacaca cctttgcatc 300

ttgctgctat ccttggagat gtaaacatag ttatgcagat gttagaagac tgggattggg 360

aagtgtgttc tgcacgcaat atcaacaacc aacacaacaa ctccaacttg ggcttgccgt 420

tacaanttc 429

<210> 78
<211> 485

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-C7

<400> 78

cccntagcat acatacacgg cccnggccac gcgtacgnaa gancggaatt cggctcgagc 60

aaaaatggag accaaagaat tcgactctta cagtgagcgc aaagctttcg acgagacgaa 120

aacaggtgtg aaaggtctca ttgatgctca catcactgag attcctcgaa ttttctgtct 180

ccctcaaggt tccttatccg acaagaaacc ttttgtttct accactgatt ttgcgatccc 240

tatcatcgac ttcgaaggcc tccacgtctc ccgtgaagat atcgttggga agatcaaaga 300

cgctgcatcg aattggggat tcttccaggt gatcaatcat ggtgttcctt taaacgttct 360

tcaagaagat tcaagatgga gttcgtaggt tcatgaggaa gctccctgag gttaagaaaa 420

cctacttcac tccgtgacgc cactaaaaag atttgtccac aatagtaatt tcgatctcta 480

aagtt 485

<210> 79
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-C9

<400> 79

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caccctggtg ctgggaattt catgtccaac caacaaagtt taggggctca gcttgcccag 120

cttggcaggg atgcttcagc ggctggggcg gctcgtcgtt ttaccactca gaagaagagt 180

attgtagaaa ttgaatcagt tggtgttgct ggtaaaactg atacccgtgt taagaaattc 240

tttcgtctag agtttcttgc taaagaacaa gaacacacag atgaagattt ggatgtcaag 300

gctctagaag atggtttcgt ttccgtgact ccatttttctc tccttccaaa aacggattca 360

gaaactcaag ccgcaagcat caagaatgga tntccaaanc ccttaactct gattnaatga 420

aaaaggtcat ac 432

<210> 80
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-C4

<400> 80

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tatcggacaa acaatttggg tacacttaca atcatgatct cataatctga cgatttttg 120

ttcacttggt tacaaattag tttgagagac aaaagagaac aaagacaggg atttgatttg 180

agatctggat tctcatattt ggagatcgtc taaagataaa tcatcatttg cagtcaaaag 240

cttcaatttc gttangaact gtggaggatc gtccatgctc gtggaancga ngattacttc 300

tcttttgagt tttgtggata ctttgtggca tacttttaac tccggatcta ntcgctccac 360

cgacgatgaa caccaatatc cgccgtccca ncctcccgaa atcgc 405

<210> 81
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-C6

<400> 81

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tattctcttg ctaagtaagc gcanngaaga gaagcagcac aaggccttag ttttgnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnntattta cactgatctg gaagcttttc agattcagca gcacaagacc agacgacaca 240

acagggaact cttttctttc cattattcaa gatctagtaa cctccctgaa tatacgcatt 300

taggcgttga agctcctctc tatgctcatg aaccactgca cggncancat ctcctatggg 360

acancattcc aatcatgncc ctgtccttgg antaacggga taagcct 407

<210> 82
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-C9

<400> 82

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tttacaacga tatgaaatct gcatcacatt tccaagatgc aacaaaccgg atacacacaa 120

ctcgatcaca aattaaactc actttccggg gacgaanttg gtagcgaagg cccangcatt 180

gttgttgact ggatcagcca agtggtccgc gaggttctcc aacggtccct ttccggtgac 240

aatggcctga acgaagaatc catcatagag aacatagcca accttccgtt cttgagctcc 300

ttcancttca actccgcnaa aagcctcggg gtcagtaccg aggcccaatg ggtcnaagct 360

cccacctggg taaagcaaag tcctctgctt ctcccaatgg gccaact 407

<210> 83
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-D2

<400> 83

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tgttcaatct tcttatagct aagnaactgn naaaagaatt gcaatcgctg agataatttg 120

accagtttct ctcttctgat aagattggga agaagatagc agtataaagc gttggtgaag 180

tgttagagaa gctcatcgct tggaaagctt acatataaca tcggcgactg caaaaagata 240

ttgagatttc aaaagactag tttgagacca tggcgaatca ngctgtgtag ttangcattg 300

ctttcttgag gaaggttatt gggctgagat tcttcagggg ctaaccggtc aaaaggaatg 360

taattcncct ccttgtcata gacatgacac acagtcatta acgtccttc 409

<210> 84
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-D5

<400> 84

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tctctaattc tctcatatga taaaatcgga acaatgcaaa taaaattagg atgaccctac 120

ctttgggttt gagctagctt ggtttctcac tgcacccaca cgtgcaattc tcttgatctt 180

ttttcaaatt ctgaagttga tgctgaaggc ctttgatgtg ttgtacagct aaatccagca 240

tgtctgaata gcttgtttgc ttatccatgt tggggacaag atcttgtagc ttctttagct 300

tcccacttat tctcgttctc ctctcccgct cagcgatgct tctaggatgg gtggcgcanc 360

cgcgtttggg ccggattttg caaggtacaa aatc 394

<210> 85
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-D6

<400> 85

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nnnnnnnnnn nnnnnnnnca taaagcttct taaanatttc acacacatac aaagtaattt 120

acaagatatg aaatctgcat cacatttcca agatgcaaca aaccggatac acacaactcg 180

atcacaantt aaactcactt tccggggann aanttggtan cnaaggccca tgcattgttg 240

ttgacnggat cagccaagtg gtccgcgagg ntcnccaacg gtcccttccc ggtgacaatg 300

gcctgaacna anaatccaaa catagagaac atagncaacc ttccgttcnt gagctccntc 360

accttcaact ccgcnaaagc ctccgggggc agtancgagg gc 402

<210> 86
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-044-Q1-E1-C12

<400> 86

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aacaacaaca aacaattttg gccaaactta atcaaagaaa caacaaatcc ttgcattaca 120

cacctcccca catctttttc cttatttcaa tcttcctccc ttcaacaaaa gatctaacat 180

aaattcatct atattttata cattctcaca atttcatccc ctcatctttt ttattgctcc 240

cccatgcccc aaaatgtccc ttaaaacgga atcgatccct cacaatattg gtttgtccat 300

cagctcgttt tcggctgcga tccttcccga gccacggccg gttatcctac cgaatgatcc 360

aatagttgat agtcccatga agctgctgct ttcttcgcca 400

<210> 87
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-D7

<400> 87

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acacntggag gcttattant cgttgatatc aactattgtc cangtctgta ancctctccc 120

tangacagag gttttcagag cagtaacaaa caacttacac atgagagtta acattgcaca 180

gtctgagatt atacncgcta gattcttttc aagtcttgaa gaacaacatg tgcagcgttt 240

cttccaggtg cacccataac tccgcctcca ggatgagctc cgctgccaca caagtagaga 300

cctttcaaag ggcttctgta atttgaccat cctttcacag ggcgcatcan gaagaagaga 360

gtctaatccc atggcaaccg tgaaagatgt ttcccgcct 399

<210> 88
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-D8

<400> 88

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aattttatcc attttttaca ctacttgaaa ggagtcccag gatcacatac ttctaaattc 120

tatcatagct caacatgaaa acaagataca ttggagtagg atctccagga aacgaggatt 180

ataaaattcc tacatgagat aatccttact agttgccatt ttggatgtca gccaccgcca 240

ttactcacca ctctctcttc gcgcccgttt gctaatgtac ggttgtattt tgactggttc 300

tgattctgta gagatgcttt cagttttcac taacttccgt ttttccttct caaattcntt 360

cctggattcc tttccagtgc ctgattggca aanccgaaca aag 403

<210> 89
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-E1

<400> 89

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agatcaagtg acagatacaa acattgaatc aaatttctta aacacctttc taaatttatc 120

caaaaaagcc tttacacacc gtgctattcc cacccaattc aacctcacat caaagaactt 180

atattgcagc ctttttttgc tacttgctaa cacagcatcg ggaagtgatt cacgatctat 240

caatatggna tcaaagatat aacaagaaga gagaagagag tatagatnaa agaaacaaag 300

cgtaagcgat taaaccacgg gtgctcctct ccaacatcaa gcaagagata ccaccaatgg 360

tagagcangg gtcnantggn accacaacac aaacaaaagc cggcaagcac aaaa 414

<210> 90
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-E11

<400> 90

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tttctcgaag agcatcaatt tgttcaacat gtgcaccatc tgccattgca atcgtgcttc 120

ctcgnntccc caacttcntc tcaagctaag tcgaatagaa gttgganana gtcaggtaaa 180

atgataagtc taccgttgga atcaccattg tttttgttat cttgattagg aggagcttgt 240

ccatgaatta tcactctttt tgggaactcc ctctcttctt ctctcttcta tctgtccatt 300

ttcatgtctt gagaccgtaa ctatttcctc atccgttact ttgtggtgtt tcctctgact 360

gaactgtttc ctgaanctga gcatccggcg tcatcna 397

<210> 91
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-E12

<400> 91

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gcatcatagt tcagtgttaa tcaaaagcca agtttcgtaa ttacataaac aaatgttgca 120

caacacgata cagcagaagc agattctctt acttccgcca caacatttac aatcagagat 180

caaccagtat ggtaatacag gtgtgagcag ttttggatta agtagtcttc tcatcttctg 240

gtttagcttc catgtccgac atacaagcca catcagcaac tagtctctca acaggcacct 300

tgctcacatc ccatcgcatg cctatatctg aaactaagcg actgggtgca gtacatgcca 360

taagccaagc cacaagccaa accaccaaaa cctgctacaa acctga 406

<210> 92
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-E7

<400> 92

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aatattacac attttcttat tatttataca tcgaattttt tcattcctta tgggaaaaag 120

ggaatcaggt tactttgacc gaatcaataa cccaatgttg accatcggtt ttgaccttta 180

accggttaat ctctgcgaac agattcacgg ctctcctcac tcctctatta tccgccgccg 240

tgaaataatc gtgaccaaat ataacaccgc cgggtcggag tatccgaacc gcccggttta 300

aatccgccca agccgaatta aaatcgtgac ccgcgtctan ctccaccaag tccggcgtca 360

ntccccaatc aaaanagctt ctccaaagcc gaancggg 398

<210> 93
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-044-Q1-E1-E9

<400> 93

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aattaagttg aaagaatgat tacaataacg gaactcagac ttcaaagttg aaagaatggt 180

ccaattgtca acatggaagc tcccaatagc cgagatttga atcaaggtga tgccgtctac 240

tcgagttagt agaaggagaa aaaccaacga acagtagtga agctttctaa tcttctattg 300

cacacagacg ctttaagtat tcgtaagtca atatcatcga ggttccccaa gccgacatgc 360

ctaaagaatc ttgggcccaa acccctatag aatcccttcc aagcca 406

<210> 94
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-F10

<400> 94

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ttgttgctga accaaatcat atagtttcta aatcagctcg acaaaaggta aacaagcatt 120

tcattcaggt ttcttcatgt tcaggcaatt gtcagcagct tgtccaaaca gctcttgtac 180

ttgctttagc tccttctctg cagcctctag ttgcttttgg agttcttgac caacaagatc 240

attttccacc tggagttcag cgattctttt gagctgagca ccttcaccac cttctgacaa 300

aggaagtgca agcaaccaaa gcatcaaact gtttagcagc cttaactaag ccagcactga 360

gctgcttaag gttgctcaag gaaaangcgt ancatccatc aagttaa 407

<210> 95
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-F12

<400> 95

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ttacatttga atcccaaaga tgatttatnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngaacccaa 180

agtagtgccg gtgtcacaac aatcaacaac aactgtcctc tgctgtctga actagcagcc 240

gccgcttctg ccgcagcata agcctccgga ggtggagtca aaagccctga cgctgcaaga 300

ccaccaccaa tacctagacc aacaacgata cctttactct cacgcatctt gttgacctgg 360

ttaatanctg gctggaggga tgttgtaaaa ggaccatgca atgg 404

<210> 96
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-H3

<400> 96

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cttaggccca tattaaacaa cacaatttca atcattcaac aaaacataga aacaaactca 120

ttgatgttct tatcaagaac tacctccttc agaaacagcc tcttgagcca acactttcca 180

tttctcaagc attctttcta atctctttac cttgctctgc ctccataact tcttccacac 240

gtctcacaaa ctcttctctt ctcacgaacc catcactgtc tgctttaacc ctaactccaa 300

ctttccacac atcctccatg aacttagcat ttgtaggctg atctgcccaa tgaggcatac 360

caatcattgg aactcccaaa ctcaatccct ccaacgtcga gtttcaacca caatn 415

<210> 97
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-H4

<400> 97

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gggattcgaa ggagggatac catcaggtat ttcttactag atatatatca tttgctacaa 180

tggatagtag tagaatcaga gagatggaga gtacaatttt tgggagcaag acaacagttg 240

catcttggag gaagcttgtc agcgccggag gaaggacatg tcatgtactc tacttgtaag 300

caatagagag gacacgcgat cgctgtcttt gttgtagtaa ctccagggat tattcctcct 360

aaaatagctc ctgctatgat gaaagacatc acccaaatcc tgtatgttaa cctccnaagc 420

cga 423

<210> 98
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-A1

<400> 98

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nnnnnnnnnn ngggataaaa cattcncgtc ttaaacaagc agaaaacata cctcgagtcc 120

catgaataaa aattatagaa cataacataa gaatttanat gtaagagatg caaaccaagt 180

ttatagagcc attgnttggn tcnaaaannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnagct tccttggatc atctcancaa 300

acttcttcat cagnnagcct tccaccaagg ggttggcanc acaaggggggg nggctcanct 360

gctgnnaagn aaancgttct gggccctgtc aaaaaccgga agggntcc 408

<210> 99
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-A11

<400> 99

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gttttgacaa gttaaacaac gaaacaacac anaacatcaa ncacaacanc aacaacaana 180

acaacganga ctgcatatnt acactgatct gggaagcttt tcagattcag caagcacaag 240

accangacga cacaacaggg aaactctttt ctttccanta ttcaacgatc tagtaacctc 300

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ggcaagnatc cncctaatgg gcaccattcc caatcat 397

<210> 100
<211> 324
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-044-Q1-E1-A12

<400> 100

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accgtagaag acccaccatc accaacagct ttcctcgcca ctgaagattt ttctataacc 120

ttctttctca cggggttatc actatccatc aatgatcgga cggctgtggc tatttcatcg 180

gctgacacga tctccaaagt aaccctatca ccatccgcca cgtagtcaag ccttatctcc 240

actgctaagc ccaactcctt caccatctca aatgcgttca gttgttgctc cgcatacatt 300

gggccacgtt gcaataggta cacc 324

<210> 101
<211> 375
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-F7

<400> 101

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ctccaactaa cccatttggt ttcaacantt acaacaagta cagggctaga tggcaaaaga 120

tgtattgtat cctaaagcta aactcttgta agctttcgac aaaataaaaa gcaagaagac 180

ttataggaga ttgcagggtt atcactccac tcagtcttct tcatctgaac tatcatatgc 240

taatcccaac aagcctttcg gagcattttg accttgccca ttgctttccg tagcttttcc 300

gtcatttctg tctgcgccag gtttcttcaa cactggcata gcttcttctt tctgcttatc 360

tctgtgaact tttgn 375

<210> 102
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-A2

<400> 102

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ccaaacgaca aatacacggt tacaaaatga aagaagccca naacaaaccc agcgaaaaca 120

agtntcagaa ccgtgcggta caccggaaac acgaacatcg ccttctagaa ccgacgctag 180

caaggacgac tcctatgtgg ctacgacctc gacatcaaac ttttggcttg agctagcgaa 240

ccccgccgca natcaacgcc aagaacaagc ctaacctgga acaatccttt cgggaaaagg 300

gagaaccgcc acaaccgaga cccaatccct cctctcccca acctaacaag acgangggtt 360

cgaaacttan ccccatctcc actgatgctc acccaaggga cctctc 406

<210> 103
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-A3

<400> 103

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caacagaatt atgggtcata gcagctacat tattacattc tctacacaac aatggataca 120

gaccacattc tatcacagaa cccatcactt tccatttcac atttatctat atgcatatag 180

atagatagat agacgtcgag actatatatg gttattggtt aagaatgaaa gagaaaaaag 240

ctgggaggaa tttgtttcta aggtccatca gcaagattga gtctttctta ggttccagtg 300

aagaccatcg tggatgctgc gtaagaagtc gttaagtggg attcaacttg acaagcggtt 360

gaaacggggc aaggtgccat gctaaacact agtgcatccc ctgcn 405

<210> 104
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-A5

<400> 104

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gacaaagccg gcaggatata atcctccggt acacaagccg gcgaggaatg aaaccccgac 120

actaagcccc gacatgggga aacgacgtag aaagacaaaa taaaacatga ttgatgattt 180

tacacataaa catagttctc tctttaacca anataaacca agatcgaaaa ttaactggca 240

tcggagattt ccgtccggag aatggagaca cccactttta agaaaanttt gattcntccn 300

tgcccttact gataatttaa aaatccntca agaagaaaaa accttgggaa tacctttggg 360

atgggcaaga cggtgggaaa ctcaacctaa acaatgcaag aaaaccgtcc aagaaacgcc 420

gttg 424

<210> 105
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-A7

<400> 105

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ttaatcaaag aaacaacaaa tccttgcatt acacacctcc ccacatcttt ttccttantt 180

caatcttcct cccttcaaca aaagatctaa cataaattca tcnatatttt aaacattctc 240

acaatttcaa cccctcatct tttttaatgc tcccccaagc cccaaaatgt cccttaaaac 300

ggaatcgatc cctcacaata tgggtttgtc caacanctcc gttttcgggn ngnattcttc 360

cccgannnca nnggcgggtt acccaaccna atgg 394

<210> 106
<211> 374
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-B11

<400> 106

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ttttgtaaca tgagatcaat aanttcatan gtttttcttt tggttgttgt tgtanaagct 120

atgggagatt tactctgtac aaagctttga atctcccttt ttcacccaaa gaagtgtgtt 180

tatggtaatg aatgatgtga ttaggccaat accaagtctc cttcttcttg ttgttgctct 240

tcaaatttct cgccttcctg ctttggaang agaatacgcn ttatgtcctc tgcngttagc 300

gtttcatact ctagaagtgc gtttgccaac gtgtgtagct gcatctcang ccgtttcaan 360

agagattcaa tcct 374

<210> 107
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-B4

<400> 107

ttttttttnt ttttttttnt gatcagtagt tcagtagaga taaactttca ctgattcaca 60

gattantgca taacaaaaaa nggnaaatga aagattgtga gaacttgttc acttctttga 120

agaaactgtt gatgaatctg gctctttcca tgcagcttgc cattgtttgt catanaacgt 180

agtctcatcg aacagatcct taagtttgtc taaatcttca ttcttacgga tgaagagaac 240

tccancnaca gccacaaaca agagtgtttt gcagaagaaa tttcccattt gatnaacaag 300

tcctactccg gtaagactat cancanagta agccatgaag aacctatcat cggcagcacg 360

aacatttgng aagttcagcc tcaaggtaga tgggaacccc ttcaaccaa 409

<210> 108
<211> 383
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-B6

<400> 108

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caaccttggc acatacgtat atatgcagta tgtaactcac cacaataaaa atcatagaac 120

aatatacanc gcatcatcat cctactacaa gtcagaattt tgcaatccac gaagcagaat 180

agtaaacggg gaagaagata aagaggtgct cagatcataa tacctctcat gtaattaatc 240

gagcaccttt ccgtactctg gtttggtcca agctgcatag gatacagggc gcgcccacgg 300

tatggtttac ccagtgggtg agatncagtg ccggtttang tcaacgaggt agtaaaaatc 360

canacttgtg tgtgtcntcc tgg 383

<210> 109
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-B8

<400> 109

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aggcttgctt tgatctttta gaacattcta atattcacag agatgtaacc aaactataca 120

gttgcatcca gaaaatccga ctcaagcgat ttcataagca cgagtcaacc accacagatg 180

aaccaaacta tatacagttt gcatcagaaa aaaattctga ttcagcggag ttcatgagcg 240

agccacgacc atcattatct gaatttagcc ttgagcccag cagttgaggt acatgacttg 300

tcggagaaac tcatcgggag tgggaagaag aggtacgaag tccttcctcc gaaggggana 360

aaatccccgg gtaaatttgc cgggggggnaa aaggacg 397

<210> 110
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-C1

<400> 110

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc caatgaaaag 60

ccaaaataga tacaaccgcg tttttgtttg taattgcatg attagaaaga gttctagaga 120

ttatcaatta tacattatac aaacgataac gaaaanaaaa gaagaagaag agagttttgg 180

actcatatag aagattcaaa gagggttcaa aacaaatcaa aacctgtgca ttaactccag 240

caaaaatcct caagaatccc ctcaagtaat cctnagcttg ggcgcctttc caannataca 300

acaatcnaaa agcgatttcc tggaaattcg ggangcatta atccggngca ccaaggcaat 360

tggnactcaa ttcnanctgc aagctcaata accaaangac ccccggtaaa ngccccaaa 419

<210> 111
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-C10

<400> 111

nnnnnnnnnn nnnnnnnnnn nnnnganaga aaaacnagtt atttgattaa tgaaaaaaat 60

acaaagtctt gcaaatttta catctaaaca agctctcttt ctcctctcac actcacgaan 120

caaagacnga agcaaaatan agataaaact tggctcactt tccggggaac aaagttggtg 180

gcgaatgccc atgcgttgtt gntaacngga tctgncnaat ggncagcaac gttctctaac 240

ngtcccttac cagtgnnnat gggcttgaac taagaatcca caacatagag aacataagcc 300

aatcttccgt tcttgagctc cttcancttc anctcaagcg aatgcctctg ggtcngtagc 360

caaacccaat ggggtccaag cttgccaccg gggtana 397

<210> 112
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-C11

<400> 112

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agaaagaaaa gttnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnng gtttttgctc ttttttaagt actaagtgat tggtaaccat cttcccgttt 240

ctgtctccgg tatatcacgg cggctattaa aaccacaaca gccacaacta ccgtcactgc 300

aaaaatggct aaaaagctca agcttctcgc aagtgcctca aaatgttgtt tattaggcaa 360

ggagctatcc tggtttccgg gagnctgctg aacaacnaag gatgta 406

<210> 113
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-H6

<400> 113

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tgaacatatt aaagacttgt gatggttcta attcntcata tctcctgcgg aaaccatatt 120

ttctagaang ttccattcgt atttccaact caaagaaaaa cagtgactgg atcttctgtg 180

tctgagttct cactccaaaa ccttgtagtg gatccgagtc tacgagcatt tgagtttgag 240

aatctacata aggcttcatt catctgttct gcctacgttt gcgaaaatgt ctgaggatga 300

aactgtctgc atacagagga tacttctttt ttanaaagac cttttatgca ttccaatacg 360

aaaagtcgac tanttcctca tcctttcgaa ctataaacat acaancgaga nncctcaaaa 420

accggggttg a 431

<210> 114
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-H7

<400> 114

ttttttttt ttcgaccaaa acatatttta accaaataca atgaatcagt ctattatcac 60

cttgaaacac tatgatggat tcaacgctac ccaaccgaaa ttcactgtat ttttccaacc 120

acaacgagat gaattacacc acgactctaa gtgaaatcat cttttaaacc accaaaattc 180

acccaatgac acgaaaacat ttctagcaca aagaaaatca aatcctatcc tgagatccaa 240

tccaattcca agctattagt ccctcatgat ccgagtgtag aacatgtcct aatagcatcc 300

tacgccaaaa aggcggcaac tttcagaaag ggtttggacc ctcctggctt caactaattt 360

cgggccctaa gcctaaaaac cggacatact aatcccgact ngatactcaa ccnggattna 420

accggggctg gagacaaaaa atttcttg 448

<210> 115
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-A3

<400> 115

ggccgccctt ttttttttnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngaacccaa 180

agtagtgccg gtgtcacaac aatcaacaac aactgtcctc tgctgtctga actagcagcc 240

gccgcttctg ccgcagcata agcctccgga ggtggagtca aaagccctga cgctgcaaga 300

ccaccaccaa tacctagacc aacaacgata cctttactct cacgcatctt gttgacctgg 360

ttaataactg gctggaagat gttgttaang gaccatgcaa tggctgggac nattg 415

<210> 116
<211> 242
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-A8

<400> 116

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nagagaatga 60

caagtgactt aacattacgt ttccagatac caatgaatgt tctctctctc gcttgttatg 120

cttctacttg gttttgtgtg ttctctattt tgttctggtt ctgctttaga tttgacgtaa 180

cagttcgtga ttaggtattt tggtatctgg aaacgtaatg acaagtgact taacactcga 240

gc 242

<210> 117
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-B2

<400> 117

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaac aaggagaagt atattataga 60

aggatcttca tacagcaaaa ccattaacat tacatgaata tctatctaaa gcgtacaaca 120

atcactaatt tactatgtac acacgcttct agcttctgat atatctcttc tacatgtcgt 180

aagagtttgg aatgtgacag atacaaaacc acaaaccaaa tgaagaagga aagagtcttt 240

acagatccga gtcttgccgg ctagccaagc agagttcatg taattcattg agtatccatt 300

cctcaccaag tgtgaccacc aaggaccaat actctagttc ctccaacaac gcatgtgcta 360

tgtccccaag ctaacttaag cggtttcccg gggaaaatca aggttctcca aggag 415

<210> 118
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-B3

<400> 118

nnnnnnnnnn nnnnnnnnnn nnnnnnnnag aaatcgatcc ctgcccttaa cgaacgaaat 60

cacatagtac agtacaacct tgtaaaaagc tagcagataa aaagagaaca ttcagtagaa 120

gccaaagaga tgcagaagaa caaagctcaa tgacttgaag cggctggaga agtaagctct 180

ctagaagaca acagtgtcga gcatagtgcc tagtgtctga acaatgttgg atgacatgag 240

gttcgagaca tgttcttcca gatgcttctt tgcatcttgt cttcccacat tcacaattgc 300

caagcttctc tggtgacaac tcgtcctcct cttgaaccgc cttgttanat ttagcaacca 360

agctcaacat ctcctggaac gtctgttcct tgggcctggg attggtgtcn aaacc 415

<210> 119
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-H4

<400> 119

gtatcggtaa agacattaan nnncggnnca nctcactaat caagcggccg ccctttttt 60

ttttttttt tgagataata atgctggttt atctaaataa ccgatttggc tctcaaacag 120

aactaatcaa tccaagtcaa tgtcatggct ctttattgaa tgagagaggt tcataatcaa 180

atacaatacg attcagcaac aaagcttcat cattcaggag atattcagaa gattctttat 240

gtcatgctca agtgtaagag gggaagtagt tggataataa cgttgtacag cttgaccgtt 300

tttgtcaaca agaaacttag caaagttcca ttgaatgtca tcgccgaaga ttccccattt 360

gcctttcttc aggaacttat acagaggaga agcattctct ccgtttactt caatcctgtt 420

gaaaatgggg aaatcagaat tggaagcgaa gtncaaacaa agtcaagtta attgggcaat 480

aanttcccgg 490

<210> 120
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-B4

<400> 120

ttttttttt tttttagagg aggatgatga tgacataaat aatactgaaa acacaagtac 60

ataagccaag aaaagaaaat cactggactc gtttatttgg gcaaaaggaa aagaaaagaa 120

gtgaagaaag agagagggtc actactgctt ctggaggtca ataaccttag cccaagcagg 180

cctggcagag atcttcttaa tccactcgct aaccttaggg cgagagtcaa agagcacctt 240

ggagtcagta cccaacaagt aatggatggc tgggaggtgg tgaagatcag caagagtgaa 300

ggaatcacca accaagaact cagatttggc gaacctaacc tccgtagaca tccaagactt 360

tctggagctt aacttcnaac tcctgggcaa ccgnaagggc aattggcaa 409

<210> 121
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-B5

<400> 121

ttttttttttt ttacctgtaa atctttgcat ttaaatcaca aaagtttgtt ctttcgaatc 60

agataacaac tttctgtaaa ttatttaggg attcaaatca aaccagtaat agtaagggat 120

aagaaactgg aaaccccaga aatacataac aatgatagta tcacaatctt ctgtatctaa 180

gaagatatgt atctcaaatt tgataataca ngctggaaca gagagccaac aacagataca 240

aacttagatc cnatcaatat cctcatccnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnag acgagtattc tccggaagct 360

caacaanagc cctaannaan ctagcccaac caggnttttc cttga 405

<210> 122
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-B6

<400> 122

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn caatccacat tttcccacaa tttatatata 60

aaatctcgta caagacgaaa catgatcatt gcaacgtacg tatgcaatta ttttcaagca 120

cgacactcgg gtggtgggac aggaaaccta gaccggtcag tacaataatc ataaaccata 180

tggtttactc taacccaccg gtaacgtcga gcttcaacgg cgttaagaga ctgataggca 240

taaccttccc accaattatg agggttcgat ggacaaaagg ttggtccagg aacaggacaa 300

ccttcgatgt cgaaatcttt gtaataagca taaaatggga gctttgctcc aatcaatttt 360

ctctaatcca ccacgtgttg cccagtcatc tgcttcccan aatgttgagt 410

<210> 123
<211> 443

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-C3

<400> 123

ggtcacnaat aaattcgccg gtccacgagc tcantagtcg gcgggccgcc cnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnngca gaaaatagca 120

tgtattaaaa ttattatttg natggataaa agacaaataa tatatcaaaa tgctgaatac 180

aaaatgtgag ctgtaataca tgagacaaat gggagaggan nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnggct 300

agaacaagta gagaccatgc gattgccgca gctcccacca tttgtatcac aacacttatt 360

ctttgtgctc cgctctgatc gtcagcggca ggaganaaag catcccttgg tccangacca 420

ngaacttctc cgggcggaac aag 443

<210> 124
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-C8

<400> 124

nnnnnnnnnn nnnnnnnnnn nnngactgag caaaacactc tttaatgaac aactcaaaag 60

gaaagcatat cattcaaatg gtaaaaacta aaaacacacg aaggtttttt atataaagtt 120

ataaacaaag catatttcaa agtgagcaat atacacaaat acgcccgtgt ttgcggataa 180

tagaagcaac aattcgataa ggatcgcatg caaagtggca ggtaatccaa gcatgaatgt 240

tggttagcgc atttatcctc tggctttaag ctccgcaagc ctcctcgaca aatcatcctc 300

atcgactttc tcctcagtct taagtaggaa tggcatgacc agcangctga ggaagcccca 360

cagagacttc caaaccatag tcatctggca accggctggc ataaaggcgt ttg 413

<210> 125
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-E6

<400> 125

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ggaccaaaca agaccagacc agcagaagaa ggagagacgg aaggcgaaaa ataaagacac 120

tcttgtttca cacgaaaaat tgtcaccatc atcatcaact agacaataca ggaagactaa 180

gaagaatcaa gaagagagaa tatatgttct tggtgaagat tagttcttcg actttgaatg 240

ctttacgagc caatcaatga cttgatcaat gttggtagag ttcttgcatg atatcatgaa 300

acagcagact tctctatctg taagtgatgt angtcccatt tcgtctgtta aggcttcttt 360

ggacagagct ccaaggtttg tcaatcctgt tcccc 395

<210> 126
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-F3

<400> 126

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aactttgaga agaagagctt cattttcaan nggngataca acacatcagt ttctcaacga 120

atcaagaaag agttaacatt gatcaaaaac agaaacataa aacactaact agaacaaaca 180

cactcatgac aaattaaatt accaatcggn aaaacattta atcagtatga atataagaaa 240

aaggtttgca ggttattctt caaagtgaaa ctgcattatg acttgacata cagacttgtt 300

gtacctcnag aaaccaaata aagttttcat ttttatgatt ccaagacata ccaaacctat 360

caaattctca ccatttcccc tatcaaaaat ttcaacaacg aacccgaaaa aagaagtcct 420

<210> 127
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-043-Q1-E1-F5

<400> 127

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tgcaaatatg acaaacacgt gacatgcagg ataatagata aagagcccca cacatcacag 120

gngaaacaan ttaacgtgca tacatttatt gacgcaattt cgtagctata gtgacatcag 180

tgacttgggt gagtttttg gggaaaagcc tttgggggga acgaaggagg gatnacaaga 240

aaaggggcaa ccttctgggg acgatatggg tgggtaaact gcgggaaata gtttggccgc 300

ccgangncng aaaaccccgg aacatgnaat tgggggacna atggggccga gttaaancct 360

aagttggatt tagccatnan tttanccncn ccaagnttcn aanggaggtt tcaattcgtg 420

cgcccaaggg nnattanccc aaattggttg ggaaa 455

<210> 128
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-043-Q1-E1-F6

<400> 128

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attttaataa attgcatgca agaaaagatg gtaacacaat aaatttatta catagaaatt 120

attttcaaag atcaaacgcc tttttagaga gatctaacat accagccaga ccctaatggc 180

ataaagttac tgatgtacca tttcaagaaa acaacgcttc gaacaaattt ttgatgaagt 240

cggtcattgg cgctgcgatg atatttttgg caaccccggc cgccaagtcc ctctccaaag 300

tgccaccaag ttgtgtcata tttagtatca tgaccttgat tcttggccat cataagcctg 360

gcaaactctc tgtagttgat ttggaccaac aacaacaaca tcaagctggc ct 412

<210> 129
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-G2

<400> 129

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nccataagag 60

tagagtacaa agctctttgc ttctgcctga ctgatataca aacaaacaaa aaaagccgaa 120

cctctcatac ctgaaagttg aaatgaaaca acaaaaacag cttcttactt cattccttcg 180

ctgagacccg gtggcattcc taagctctgc gcaaggtcac tcattctctc tttcatagcc 240

accacactct tggcgtgtgc gtccttgtat gcttctgtga caagttgtga taagtttttc 300

ggaacctagt tcattgctgg ctcgggtaat atcaagttac gggattgggt tgctgggnta 360

accggataaa gttaaccctt gaacaagccc cccctggaac aataaaccaa tcaaatttcn 420

gnggaagcaa ancctttgg aaaacgttca agctt 455

<210> 130
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-G3

<400> 130

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tcttctatat acacaagctg cgattattac tgcgagtttg taatttattt ggatcggaac 120

ataagacata ttgtaagact tcagatcagt tgcaggacaa gttcgagtga agtctgctag 180

aacggtctgt ctccatctca gttcctcaaa gcttggcaag caggagggat tgttgtcagg 240

ccacatttgc tcagaagagc ctggacttta gatgggtaaa ccgctaaaac ggggagaaca 300

gacttgaatc tgcagatgca tttcagatta gcggcttgga ggagttcaca acacccttg 360

attggaaatg gcgggttgcc ccnaattacg gctggacaac attttncaaa atggtttgcc 420

ttgaangtac atgcggtaa 439

<210> 131
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-G4

<400> 131

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acaaagtcga gttcacattc atgagtacgc ctaacatatt gaaaaacaaa aataaccgat 120

aaaatccaaa acgggagaga gcacagcttc aacatcgatt ccaccccaaa aaagagtcaa 180

tcagagacgt tttacatgaa caagttgggc ttgttggcct tgtaagtcgt cttcagcttc 240

ctgcttggtg gtctaacctt gcggaacacc aatgggaact tgatcttgct gttgtggaac 300

tgtttagtgc tctctctctt gcacagcttg gctgggacag tggctgtctt gatgatctga 360

atgcaaggga aatctgacac ggtgacgggg atgcaacccc attgtanacc ngctcaaaac 420

tnccgttaaa attggggtca cg 442

<210> 132
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-G7

<400> 132

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gatggtatca gaagcaaact tctttacaaa caaaatatta tcaagttcat caagacagat 120

gcagacaata caagaataca aaacaaatgc caagctcttt tttttattac cgtaccaacc 180

aaataacatc ctacactcaa gtaaccacca accaaggaaa gcgaggtggc aacatctgct 240

tcccaaacca agaatccaca aaatatcggc tcccgatact acataccgca cttataagtt 300

gatcgataag gaagtacctg gaaatttaa catttgtttg tgctctcatt ctgctctgga 360

ctgaccagct cgagaagata aaatgatgcc tacaattagg ccgtatanag cgagcgcttc 420

cgcaaagata aggataaga 439

<210> 133
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-F3

<400> 133

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ataacttaaa acatattgct atcctagaat ggtatcatct taatacagat ttttatttgg 120

tttcagagct gtttgatttg ctttaactta cagagtacta agtgatcata atgagtccca 180

aggcttgagt tctctgtcac gatccatgtg tttcctaatc acttagcctt tgccaaagct 240

agtgtcattg acctcgctcg cagggttagg aaaattcccc aaaagaatgc gaccaggctg 300

tgcaagatga cccggaaagt gcaagtgggc acaataactt gtagttaaac caacccaacc 360

aaccggggaa aaaacttcaa tgcaagttaa gctgggacgt tgggatnaag tcctcctgga 420

ttccttcccc naacaaaggg gtccaaggga anttctt 457

<210> 134
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-G8

<400> 134

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tatgtaataa aagtgaacct cattgggata tgaatattat cagtaaacca gaactgagga 120

aggtgtacat attactttgg gacatggcct gcttaaacaa atcatacagc catttttttt 180

gttgatttta ttattttgat gattcaagag aatccaaaaa agtgtcaaat aagatttcat 240

atcctgtcgt ctgtcggtca tttttttttgg gtttgttgtc tccacatcta atgtaaaaag 300

tttctttatt ttggtcgctt gcgatatggg tccaaggaat catccacaag tttccntcac 360

atagttacca actcctctca aggtcctcaa caaccccgcc ggcaaacaag gtttgncttt 420

cctggtgaaa ccgggtna 438

<210> 135
<211> 166
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-040-Q1-E1-G9

<400> 135

ttttttttttt ttttcttgtt taataaaggg ttcgatttct tccacaatgg taaagagcac 60

aagccagatt ccttaagttt taagacaaca ctataaggac ccaaaaagga gaccaaagac 120

aaagacaaag accaaactga taaaatgaag ctgttcaggt tggtac 166

<210> 136
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-H1

<400> 136

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nnnnnnnaac caccaaaaga ggaaacaaag cattaaagct tacaacgata tgtgcagaaa 120

gaaaagttag gcccaacata gcccataaga ttaacatcta cggcataaag atgttttgac 180

atttggactc tatccaatac acgtgtccac gtgatattac aactgcaaca caagatgaag 240

agtcatcgga agtgtaccga catcaacctt cgccgccgat gaacaccgaa tccggtgagg 300

aatgcatcgc cgaaacatcg cacaatgaat ccttgtaacc accgaaataa aactgaacgg 360

tgcccaattt aaaagacaca gcaaaangga tccataatta gccatcggaa tatccttaaa 420

tcttnaaacc gaagaaatat c 441

<210> 137
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-H10

<400> 137

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ttttttatgg gttcaaatca acttattgga atcacctttg atcaaatttc acaaaagaaa 120

tggctagtag agttacacat aagatgaata caaggcccat atggaaggtg caatgggaaa 180

tgtagaaact tgactgcatg accgagagta tgagagaagt ttcttccaaa ggagtcaaat 240

atctctgtgc gtgttcacaa ttcttgtgca agggctttct cgatgtcttt ctggatggat 300

agaggtgaaa cagttgtgcc ataacgatca atgacttgac catctttgcc gaccaagaac 360

ttggtgaagt tccatttgat acgacttcca aagaaaagag ggtttcttag atttgaggaa 420

ttttgtagac tnggtgcaac gttttgtcca attaca 456

<210> 138
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-H12

<400> 138

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taggtttttg caaaaccaca agatacagac cacaaaagac agctacgtag gttaataaaa 120

aanaaaacat atagatgcct tcactcttat atggaaacca cgcattacta tatgtatatg 180

tatgtatatt cataaccaaa acatcccaaa agatagatta tctgaaacgt aattatacat 240

aacccacaat aagatagaaa acagatctat ctaagtagct gaaccacaca acatgagtct 300

ccgggaggaa gtggcaagac cggaacggtc cctgggcttc acctttaaga ctttgaaggg 360

caagtggttt gggttccaag ctgaggtgtc ctgtggcata ncgcaactgc ttttagcctc 420

gcatc 425

<210> 139
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-H5

<400> 139

nnnnnnnnnn nnnnnnnnnn nnactgaaaa gtgtatcaca aaacacaaaa tgtaaacaag 60

tttgaatagt ttatgattat ttattacaaa tccatactac aattatacag tcttcaccga 120

tattttgaga accataatgt aaaaaagaga aagagaaaaa aatggaaaaa catgaaacaa 180

agtttgatga aatcacttcc agttgttggc aacaatgtca gccaagtcaa caactctctg 240

tgagtaaccc cattcattat cataccaagc aatcacctta accatatcat ctcccataac 300

catagtgagt gatgaatcaa tggtcgttga aaaatccgga gcatctgaaa tcaacgggac 360

actantggnt caaccgcaag acaaccgagt aaaaccttaa agccccttcc ccngcaagaa 420

tcctcctgaa agcaagcgtt ggacttcccc aa 452

<210> 140
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-A1

<400> 140

accggtcaan aattaattcg cnggtcgacg aagctcacta agtcggcggc cgcccnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnaaaaa gaaaccatct tttcaattaa cttgcaagtt tcttnaagtt 180

ttatagggaa gggaaagaag ggtcataacc cattacatca caccatacta agagagtagt 240

aataagagag acatgagccc aatagatgag cccanatcaa cttttaatca nattacattt 300

tgattaaaag aagcttcaat anttggggca acaagtgcaa ttgacncanc tgcaaaagga 360

gccccaactt gcacttgcaa nttggcgttg gtccccccgg gaacaaaggt ccaatgataa 420

agggcccccn tgga 434

<210> 141
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-041-Q1-E1-A11

<400> 141

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acacttttac ttggtgcctc aacatttata gcaaaactat tcaactacaa aacacacaag 120

atcaaactta tgaaaccaat aactcatcaa cacgtgtctc atcaccaacc tcacacttca 180

cctgcaccac ctccgacgtc agattctctg cttttctcct tcgtttcaac ttcccgtttt 240

cagacgacga cgtagaagag gacgacgacg acgacgacga agaagatctc ttagacgtga 300

tccgaaccgg gtcaggttca ccggaattaa ccctcaacgg aaaattcaat aaagcgcggg 360

aaccacgcat cctaaaagca gctatatcgt aagctaaa 398

<210> 142
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-A3

<400> 142

ggtccccggt gctcactagt nggcggccgc ccttttttt ttttttttta aaatagtgaa 60

gaaataaata ctccatatga cttaaactta aaaatggtca agaagagaga gatatgttcg 120

tagctgggag agagaggaga gaacaacaac taagaaaatt taagaaatgt aaatcgctga 180

tagacgacgg gtcaaaatca gatcaaagag tgccttgcaa aacaagaaaa cctttcttct 240

ccggtgatac tagtacggca gagcaaacac agcaacagaa ccgacttctt ttctcccttc 300

acagcagatc ggccacgttc gaaggnagct ccttcgacaa ccacaatggt agaatttctg 360

aatatcaaac aagcaatcct cctcatcatc acgggtcacg aaaattgatt cgcaacaacc 420

ctttctcccg aaaccttcca acttt 445

<210> 143
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-041-Q1-E1-A4

<400> 143

ttttttttt tttttccagg gaagaacatt cataagctag taaaacacac aagaacaagc 60

aggggacaca agtctattac aacacaagat cagagcacaa cagctacaca atccattatg 120

tgaaaattcc cactaagcac aacattacac cactccactt taccccaaat ctctccaccc 180

tcgcgtcttt ccactgcgat ttccgcacac caaatctctg ttttctctgt tttctgcaag 240

aacagaacca atttcccacc ggtgtaactc acagttttgg accacttaca agccacaggc 300

aacaatcctt caaaaccttt aacgactccc caagctctct gctttggatc ataagctctc 360

aaacaattct cacgaacatc atagtaatac aagacatcat ct 402

<210> 144

<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-041-Q1-E1-A8

<400> 144

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gctactacat tggatatgtc aaaatacata atacaaaaaa attacagagc aaaacaccaa 120

aaaaaaatct aatcttgatc ccaaatatga ctaaagaaat cagcaaaagt tggtgaagct 180

accaaactag taaagccagg acttcgaaac gggctcataa atcccgccgg cgagaataat 240

cccagtggta tagccggcga aaacatccca ccttgatgat acatcggaga gaatatcccg 300

gtagaagctg ttggcaacaa ggccggagat ggcgagagta ttcccggagc ataaccacca 360

aattcagctg cttcttccat agccgtgttg atttcca 397

<210> 145
<211> 118
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-B3

<400> 145

ttatatttac tgatccattc tgtttggtgt tttacatttg attgaattcg tnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngggcgg cctcgagc 118

<210> 146
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-B5

<400> 146

ttttttttttt ttttttttttt ctcataacaa ttaagcttat caatggttca accccatatt 60

ccaaatgtat atgtatagtg agcaataaag aagaaaattt gcatattttt atcacataca 120

ggacaaaact ggaggacttc cactaaacca ccaccataaa ttaccaaaga agaatgtcgt 180

caattcagag aaacttgaac atcatcatct tcatttaaaa aattcgaatc agagaagctg 240

tgggtacaag acgttcangc cacttgggat aagcgcgctt gtacaaagtt caagcacact 300

acgtcaaggt tggttgaanc aactccaatt ggatatgcat ttcattggcc ccaangttgt 360

gccnacnggg ttccttcacg cgaccacgaa cgcccgcatt ttgaccatac ttcaacaggc 420

ttgaaccatt tcacgtcttc ggggtt 446

<210> 147
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-B6

<400> 147

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tattaaatag tgaacccttt ctttcaaagg gaagttttca aattctcaca ctaacctatt 120

gaacaagaac atctaaaacc ctctcaaaca cattcattta ctctacttat gattttcttc 180

tactaatgtc tttccctgaa aactctcctg atccaaatgt tgttgccata tcgatgccgg 240

ttcctcctcc gactagagta gatagtccgt tacttggacc atttccgtta ccaaccgctc 300

tacctaaacc gaggaagtcn aatgtcgttg gttncggacc aaacaacgga tgaaatcccc 360

aacaanagnc cctttaaaac ccgaacctgg cttccgccaa caacaaaggn aancccnaat 420

ccnaagncaa ggagggaact aattgcgtn 449

<210> 148
<211> 378
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-B12

<400> 148

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ctaanangaa aacaaataat tccaattcat atatgaacat ttttgcctcc ttatttcttg 120

aaaatgtgga attggaattc cccgaggaat tccgatctca tttcctttgg cttcaggata 180

ggcctaataa gaaaacaaat aattccaatt catatatgaa cattttgcc tccttatttc 240

ttgaaaatgt ggaattggaa ttccccgagg aattccgatc tcatttcctt tggcttcagg 300

ataggcctaa taagaaaaca aataattcca attcatatat gaacattttt gcctccttat 360

ttcttgaaaa tgtggaat 378

<210> 149
<211> 196
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-B7

<400> 149

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncana 60

aatcaatttc atattaatat taacggtaca gtcttccccg gttcggttta aaaccatggg 120

gtggattcnc aatanaaatg gttgtttatt atagagagga tgaagctcat gaagaacctt 180

ttcctcaagc tcgagc 196

<210> 150
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-B8

<400> 150

ttttttttt ttttttaaa atgacaatga tcaattacta tttagagacg accatataaa 60

gatttcgaaa tttcaatttg acatttccat aattagttct ggacttaatt agtcctagaa 120

actatattat gaaaacaaat aaaggtaaaa caccttttc tcattggctc atgcatcaaa 180

aaccattttt caatctgttt tcaaaatcta caaaaaggca aaagaataaa gtaggaaaaa 240

aatcaacgag catgaggaaa tttgagcttc ttgggtttcg ttaaggagtt gcagaaagaa 300

gagaaagctc ctttgatttc atcatggatt gggatagcca acgagagcag cggtaaatca 360

tgttggggac tccggtttgt tgtccaaacg aagacagagt gagccaaagc cgtttgtcct 420

ttgttgagtc cctcaangga tg 442

<210> 151
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-B9

<400> 151

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atcagacttg agatctgcgg ttgcaacaag atacagagaa cgattgaaca aagtgaggtc 120

accaagagaa cattgatgaa aaatatccaa cacacatgag ccgatgagtg ttccctgcca 180

caaatgttcc tccgctgcta gaggataagg gcttgaaatg ccagacacaa gcaagtcaca 240

actagctgtc ttcttccaag cctcctaatc tgggtacctg gattataact tataacagtc 300

cggaactctt ttccantttg caaaattgat aaggcttaaa cacacaaggg cnaanaccca 360

atacctcanc tgcatgtccc ctttgaactn 390

<210> 152
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-C4

<400> 152

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aaattaattt aagtactaga gagtagagat ccaaatacaa accataatat gttcgtctca 120

caaagtnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnntcacatc acattcacat aaactcgtca taaatagacc atcccaattc 240

ccaaatggct tagaagcaaa tgtccagggc acaacagcaa cacatggccg caagacagcc 300

tttgaagaat ccgtcaccct tagacttggt ttccacttta ccctgagcta ccgaaccatg 360

actcggttgg ttagtccggg taaccaatcc ggcggtggtg gtgatgtcan ggtagacatc 420

ggtggcggtg ggtaaccncc tgcaga 446

<210> 153

<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-C7

<400> 153

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nnnnnnnnnn nnnnnnnnnn nnnaccaaca aaacccaaga caaacaagaa aataaaaacc 120

aattacatcg taccccncat tgattttatt acccttgncg ggattttatt tgaaaggggg 180

gataaattaa aaaaggacat catcaaagca gtacgtaaaa gtccgaacga tattacaaaa 240

agaaacacaa gatttgcnaa taaaatgagc ttcaacacac gtgtctcccg canaggcttt 300

gttaaattcn cactcaccat attcaggcgc ccgacggggg aagggacggt ggcatcgtcg 360

gaatcgggat tgnccttgga ggagcccaag ctccttgaaa aaangggcta aaacacgaag 420

ctccaaccgc caagccatcc ccaacc 446

<210> 154
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-D1

<400> 154

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nnnnnnnnnn nnnnnnnnnn nnnnnggcca ttgacattgn catttcttan aaaacacgaa 120

tatgtttaca cagggtgtta caatacgaan aagccaatgg tancgaaaga tggaaatatt 180

gtacgataca agagacataa aaacacatga gatgatgatc acctcagtgg aacttgaggc 240

tggtcaanac gttgttgttg acgggatcag ccaagtgatn aagcaggttc tgataaggnc 300

ccanaccggt cactaantcc ttgggataaa gtaaccgagg atggcgaaca ataaccaatc 360

taacgttctt gaactccctg agtttcaaac cccttcaatg acttcccaac ctttccaaaa 420

ccaaan 426

<210> 155

<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-D10

<400> 155

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nnnnnnnnaa agaggtttca aacaaagaga tgataaaaca taggaatcta acttatttca 120

tggaagatcc ctatgtgaag aagtcnnnnn nnnnnnnnnn nnnnnnnnnn ntaaaaccga 180

gtctgtgagg gatcaaagga cacaaacttt catcccattg catatttctg agtccagctt 240

ctcgcagtag actcatactt tgctctatcg gttttgtaca tgtgaagcaa tctctggaac 300

caatggatca tctgggtttg ggtccgttaa caatgaacat atcnaaagca anaaccttcg 360

atatggtgag tgcaggactc cattgttctt tcaaaatgtc aa 402

<210> 156
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-040-Q1-E1-D12

<400> 156

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ttaagataat taaacccgaa aaatcacaaa agcccccaaa ttcaaagaga aagaatataa 120

aaaaaagcag aaccaaactg ttttttttctt tttttcttat tgataccata atcttttaa 180

gctctaagca gtagatccct tgagcttctt ggtgatgctg gcaatgtact ggccttggtg 240

aaatgcttgc tgtagctcca gctctgttgg ctgccttgaa ccgtctcctg caaatgttcc 300

agctccatat gggcttccac ctttcacatt ctccatttcg aacattcccg cgccaaatgt 360

gtaaccgatt gggacaaata acatccccgt ggtgaaacaa gct 403

<210> 157
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-040-Q1-E1-D4

<400> 157

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ggtcacaaca taaaccatct tcagacacta agttcacaca caaacttcag ttcaagcatg 120

aacttgaaaa gaacagctaa gatagttaca tgtcctctac acatatataa tttgaatata 180

ttacataaaa cacacaaaac aaggattaaa acggtgcgta tcatgggata ccgatgatgg 240

gcaagaaagg aacgtaataa ctggtcggag ccagccccca ctcgggagga actggtaaat 300

caacggtctt ggacgaacta aaagattcga agccttcntg gacatgattc aagaagaaca 360

acttgggaag aanagaccat attttgtcac cgccaagcnt aacaatcctc cgacnttaac 420

gttaattcct tgggaaanca taaa 444

<210> 158
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-D9

<400> 158

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nnnnnnnngg ccantgacat tgtcatttct tacaaaacac gaatatgttt acacagggtg 120

ttacaatacg aagaagccaa tggtancnaa agatggaaat attgtacgat acaagagaca 180

taaaaacaca tgagatgatg atcacctcan tggaacttga ggctggtcaa nacgttgttg 240

ttgacgggat cagccaagtg atcaagcagg ttcngataag gncccacacc ggtcactant 300

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cttgagtttt aanccccctca aggnatttcc naccttccca aaaccca 407

<210> 159
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-E7

<400> 159

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aacttgtggt ccaaatacaa agttaaataa aagacaaggt gtgtaagaaa atacaaagct 120

aaaaagatac atgtggtgga aacatacaaa gctaaaaaaa agacaacaaa gcaaacgaat 180

catatgtctc ttttggcatc aagtggaaca tgagttgcaa gttacgtgtc tttgtctatc 240

tttgtctcca accggtgatg ataaacttca ttgaagtgca taagacgaaa ttcctttaca 300

gtttctcctt aactcacaac cacttgctta tccgccatta acactcacca aaagcataga 360

gaanaaaaac aacaattagc atttacagtt aactttccaa tttgattcaa tcacagaaac 420

aagatattaa acaacaaagt tta 443

<210> 160
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-F1

<400> 160

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnan 120

attaaagcaa aagcatcaac catcancaaa atccaacaag atagngaaag atccaaccgc 180

cacttgcaac tanactanan aacncngaaa tacaaaaact tgcaaaacac agcccaaaac 240

agaaactaac acacattgct taggggggaa aacagttttt tgggaaaaag aaaaaaaatc 300

cccgtcactt aaccacccng aaaaagacnc aaanancaat aaaaaaaaac aaagtaaggg 360

nggcggaana ttagggcacc aatatttaaa accncccgca angtcaaaac ncaatcggga 420

cca 423

<210> 161
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-F2

<400> 161

ttttttttt ttttaatata aacacgtcat tagcatttca attaccaaag aaaagcaaga 60

agaagatgaa agagcaaagc tcagtattat acagatctgt agataatgaa aactctggcc 120

atcgaatgat atctttccac caaagagaag aggttgtgta cataaaagac ctttgaatta 180

acctaaataa gaagataaga gaaaaataac tcacatttta tggtttatga atttgatatc 240

gaaagatctc ttacaagcca tgtaaaaaca agaattcccc cataatttta cagtcgtcca 300

aatcatcaat atgtcatcat ccttctcaat ttagtgttga atcaaccaca gcctcnggcc 360

ccctaatatc aaaaccttgg tccgccggtt aagagtacaa agaatgagaa gggaacccnt 420

tggttgc 427

<210> 162
<211> 89
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-F8

<400> 162

nacataagac gggccgtcca cgcgtacgna anatcggaat tcggctcgnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnn 89

<210> 163
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-G1

<400> 163

cccgtacgta agancagaat tcggctcgag ggaagagatt ggttattgct aataagttaa 60

ggaggagagg aagatctatg tcagcttcga atttttactc gtggcaaaac cctaattcaa 120

tgcctttact tgcactccaa gaacctaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnngctcag actcgaagtt gtttctgtct aagtagtttg cnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnat caagtaacat tgtttccttt 360

aatacttgnt tttaatttgn tcntcncctg tgaatttgtt ttattaaagg gagaatttan 420

aggaaaaaaa aaaaaa 436

<210> 164
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-G3

<400> 164

gcccgaagag cacagaaagt cgcgnncacc cgtacgtaag ancggaattc ggctcgagga 60

aaaatggaaa atattgagta tctgaatgag atccaagccg ttgcggggaa gctaatccac 120

agctatggag tcccagttat gatcacgttg ttcctaagat ggctcgcgtc catcgttgca 180

gtgtcagtca tgtctttcat attttaaaca tttggattta tgtttaattt ttaatttttt 240

aatgttggtt tacttctttt atttgtgtgt aaagttttct tatgatattg gatcanacga 300

aatggaagta ctcaaacaat ataatggctt cactattaac tccttacctc ctctctaacc 360

ttcctantgt tatttttcaa ggtcttgang gaacggggtt gggaaatgga tcgctctcct 420

caccgttant cccaggcttt ttttaccaaa ccattttcaa tgaatc 466

<210> 165
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-G4

<400> 165

anatcagaat tcggctcgag gttttaaata tcaaagccat gttttgggta aggaattaaa 60

gagcaaaaac ctcgattccg atttcaaata ttcgaaggtg aaatttcttc attttctgcg 120

aatttggtag ctatcacgtt ctcaatctgg tgaattaggg cttttgttga gctgtggaag 180

ctaatgatgg gtgtacccac cgctgaggaa ggtggggttt ctctttgttg ctatgtcttg 240

aaaccttagt ttgcttttgt caatgggtaa aaccgaggat gatgtgagtc tccgtgtcgc 300

cggcggcgaa gctaccggcg attcgacggt gaggaatgct cngtgtgggt gttgcaaatg 360

gatttcaaac ctcgttgggt tcaaatgttt aatcntgctg cttttaacaa tcnctttgtt 420

tccttcc 427

<210> 166
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-04-Q1-B1-G5

<400> 166

ctcgagcatg agggaagtca gaacagtggt gtactctcag tttttggaat cttacaaaag 60

tgtgacagtt gaagcaatgg caaaggcctt tggcgtttct gtcgatttca tagaccagga 120

gttgtcgcgc ttcattgctg ctgggaagct tcactgtaag atagacaagg ttgcaggtgt 180

tttggagaca aaccgtcctg atgcaaagaa tgcactttac caggcaacaa tcaagcaagg 240

ggatttcttg ctaaaccgaa tccagaagct gtctcgtgtg atcgatctgt gagcatgcta 300

catgtttctg tttcactctt tcgtcaagct ttgcaacttg gaaactccga acggtagaat 360

cttaaggtct gagaaacgat atgaactttg gattttgaga tgaatggctg 410

<210> 167
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-F1

<400> 167

ctcgaggtct taaaacatgg gaagtatcgt ggagccatgg gcagcaatcg ccgagaacgg 60

aaacgcaaac gtgaccgcga aaggctcgag cagggagctg cgacatggga gaacagcaca 120

caacatgtct tcatcgtcgc taaggaagaa atcagacctg agattggttc agaaagttcc 180

atgcaaaact ctcaagaaca ttctctctaa tcttcaagaa gtcattcttg gtactaagct 240

tactctctta tttctcgcca tccctctcgc cattcntgcc aattcttaca actacggtcg 300

tccgttgata tttggactga gcttgatang gctgacacct ctagctgagc gagttagctt 360

tttgacagag caactagctt tctacactgg tccaacagtg ggcggtttgt tga 413

<210> 168
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-G7

<400> 168

ctcgagcgcc ggagnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ttccaaaggg aacccttaag 120

aagagtctta gcaataccgt tgccgttagc cangtgagaa tccttangng nggcgaagaa 180

atccccaagg agacttcaga tctggttgtg gaaatgtcag atntgggatc tactcgtcgg 240

attggaccaa gattngggtt tgattccggg tcagattcgt ttatctggcc gcaaatcgaa 300

natcagcacc gttttacgcc ggtcctgtga ccatgacctc gccgcctcct agcgatgtcc 360

cgcttccaag ctttcttcac naanaangna acaaatgatn tcatcaggat ccttc 415

<210> 169
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-G8

<400> 169

gagacgnccc gccacgcgta cgnaaaatcg gaattcggct cgagaaaaca cacaagaaaa 60

taaagatact acaaagtata cgacaacttc ttttttttgtt tgtagtaata attatagcca 120

aaaatataga canacaaaat ggagagaaag cctcttgaac ttgagtcgac ggataaccac 180

cagaatcctt cctccgccgt atacggtggc tctgttacgg cggttgactc tgttgaagaa 240

gatgttcaga atcagaagaa agtcgtttat agaggctgga aagtcatgcc ctttattatt 300

ggaaatgaga catttgagaa gcttgggatc attgggaaca ctaacaaacc ttctggttta 360

tttaactgca gtcttcaacc tgaagangta ntacagctgc aancatcant aacgccttta 420

gtggcacaat taatttcgga actttcgttg ctg 453

<210> 170
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-H1

<400> 170

ggggatgaat ccttggctcg ccagaagagc ataaagtngc nggcnacccg tacgtaagan 60

cngaattcgg ctcgagatgg cgacgacgac gagttgttcg cttctccttt cttccactct 120

cttccttcac tctcctcctt cttctcacct ctccttcttc aatctctctt cttcacgatc 180

ctctccaatt tctctttacc caatccgatc caaacgctat ttccgaatcc tctcgaagct 240

ttcactaaac gacaacaaca gagacgacga tgatgatact cttcatttta ctccgttctc 300

cgccgttaaa cctttcttcc tcctctgtac ctccgtcgcg ttancgtttt cactcntcgc 360

cgcttctcnc gccgttgaat ctggctcggn gtttgtagtt agtactccga agaaacttca 420

aactgatgaa gctcgcgaag gntcgtttgt ttcaagagaa cactccttcc gttgtttaca 480

tca 483

<210> 171
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-H3

<400> 171

cgcgtccngg ccgtacgtaa gancgnaatt cggctcgagt gactctggcc ctctctctct 60

tctctctctc aaaattttca gagagagaat caaaccanaa ttttcgacga cggtaaattg 120

atgtcgtcgg tgatggttga attgccgtcc ggtgtagtat ccggctttcg tctgacatat 180

attggcttcc acagcagtac atggtcggnc cntgtctagc atcatcggct ctttcagcgg 240

tgatggctag ctcacggtgt taatccggcg tagttcgggt tttcttttcc ttttggggna 300

acaccacggg ttacgtttcc gaccgttgat tgtntttana tnaagaactc attgggtatg 360

ngtgttgggn atcgccgtng gttttnaatn naagcctgct taattagatc caaantncaa 420

accnatcctt tgaaatttaa aggttacggn ta 452

<210> 172
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-H4

<400> 172

ttgtacggtc atagattgat ttanacgncc cggccntacg tacgancnaa aattcggntc 60

gagcgcatta atctctctct ctgtatcttc tcttgagtgg agcgaatatc caaaagagtt 120

ccgagtttct ttcatccttc acgagcttat acttttcgg tctccattcg tttgttttta 180

acgatnaaaa acaacggcga aggtattgga aataagacag aagctgttag ctctgtttct 240

ccatggtgtc aagatcttgt gctaattttc tagacttatc atcttgggac cttttagatt 300

ttcctcaaac tccacgaact cttccacgcg tcatgnctgt tccgggaatc atcaccggac 360

gtttnacggt gatacancct cccgaaagta acttcgaact ccgggggttc acgtgagagg 420

gaagattatt gtancnaaca tgttnccact ncaatctaaa agagatgcag aanctgg 477

<210> 173
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-H6

<400> 173

ctcgagctat tctctgtttc gtgttccact tcacgattga gagaacactt tcctaagttt 60

atcaagaaca tttcttttca atttctcgat tctttcnggc tcattctctc atctctgttt 120

catatctaaa ttattgattg agaattcgac ttgtggaaat ggcaacagtt gcatcaaatc 180

tcgcttgtat cggaaaagta acgatgtcta gagctagttc aatggtagga tggaggttgc 240

agataaattg cagaaagaaa gagaaaggaa gagatcagag tcattatcct tacaaagtca 300

ttgaaatcac tcctcctcct aaatctctcg gnantccgtt ggcctcctca ataaccttca 360

atgtggagag aacgtgatga tcgaagggca aacgtacaca atccctgctg tgac 414

<210> 174
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-H8

<400> 174

ataaacggcc gnccacgcgt acgnaaaatc ggaattcggc tcgagcggct cgagcggctc 60

gagcggctcg agctcgagcc gctctcaaac cctaagagaa gaaaaatttg ctttgttttt 120

gccaaattca atcgngatat caaagatgaa gatgggaggt tcaaagagaa gagtatcgag 180

caaaggactt ggagctgttc ttaaagaaca aagagctaag ctatacatca ttcgaagatg 240

tgtcgtcatg cttctttgtt ggcacgattg atcctcaatc tgtcttcana tttcatcctc 300

atcaatcttt atgtataaaa ggctttcgtg tgttggaggg agaagagtcg tgatgtttgg 360

agcttaagcg ggctggcggg atnggggttt tgattctacn cgaagatttg tggntgaatn 420

ggttaaagag tttgacttgt ttttgattaa acctctcta 459

<210> 175
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-A1

<400> 175

ttttttttttt ttttttaat gatggattga tggtggagaa tggagatgtt gtccgtgcag 60

tggttcatga gcatagagag gagcttcaac gcctaaatgc gtatattcag ggaggttact 120

aagatcttga ataatggaaa gaaaagagtt ccctgttgtg tcgtctggtc ttgtgctgct 180

gaatctgaaa agcttccaga tcagtgtaaa tannnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ncaaaactaa ggccttgtgc 300

tgcttccctc cttgcgctaa cttagcaaga gataaaacca aaaaccctga tcccttatg 360

aaaaaaaaaa aaaaaaagcc caanccgaat tc 392

<210> 176
<211> 386

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-A3

<400> 176

ttttttttttt ttganctgca aatctggttg aagaaattaa gcaatataca gagttacaag 60

aattaagaag aataagatct aaatatctac acagagaaca taaggnnaga agaagaanag 120

aagcagaata atttcataac aagaaaaagg tattcaaggg agaaatccaa ataggaatgg 180

agaagggtaa gaagcggtan aagggagaag accctggcgg aggacaggcg gagngatgtg 240

gagcacggtg gttgaggtgt tgccgcataa caatctggga cggcttcagc caccaccact 300

acanactcca tacctatctt cattagctct atacacagct ccatcctttt atcaacaatt 360

ttcccctgtt ttttttaat atcccc 386

<210> 177
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-B1

<400> 177

ttttttttttt ttgttttgtt tttcattgat ataaatactt ggagtacacc tccttacaac 60

tagaaacaac atggaaacaa acgtggagta acaacttcta caaacttgga aaagatggaa 120

actgtaatcg tggaagactc cttgcttatt gtaactaaat cgaaaacaga gactaagtaa 180

aatgacttag tgttgggaat acttgggatt ggggcatgcg agtcccttaa ggggccttct 240

ccttcctcnt cntcctctcc gtctggactc atcatattgt tgcataaatc gtcctcctgt 300

ttgatatccc cgtttagcaa atttgtcaac aagcttcgag tcatcatcac ctgaacaatc 360

ncccggagan ttgcgcaaaa ttggtcaatg cttgcctcca tttaagaact ttccaaggat 420

ntt 423

<210> 178
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-F10

<400> 178

nnnnnnnnnn nnnnnnnnnn nnnnnnnnga aatgagaagt aacattaact aattacaaga 60

taggatatta aacctcgtgt gatatggaag aaaataaact tttgactaat ttacatatgc 120

aaaagttgta gtaacctgaa aaaaaaaaag aattctaaaa acaaaggtat accttgtagg 180

aaatttcgta ttatatagtt agaataaaga atgtactaaa tggaagaaaa aaatatatat 240

atgaatctag ccgagactat caatggccaa caccgggact aggaacggat cggagatacc 300

gatcaacggt gggagagatg tcgtgatcgg agctttccgg cgaagacggc cgcgtgacct 360

ttttgctcgg tgtcgagttg ggaattttcc cctttgggaa a 401

<210> 179
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-F3

<400> 179

ttttttttt ttgaatctga actctgattt ttgaacaaac anatttacat gacataaagg 60

tacaanggaa aaattaaatc ttttttttt tgnttnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc atacacaaac cagaatgtta 180

caaggagaac tctcaaacag cggctctcaa ggctcctctc gctgcntccc gtctcatttg 240

atcttgtttc ccgctgcctc ggaagtacat atacacttgc ngantaaccc agatgctaac 300

cactgattcc anggcaggaa aaatgcaaac ccaatgaagt agaatatccc ancaattgcn 360

ttgaccactt aagacatcct agtgcaggna nagatncccg caagagattt nccttgaag 420

<210> 180
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-F4

<400> 180

ttttttttttt ttttttttta agccagaaac gacgtagtct ataaagagaa gaagtcaagt 60

tagtcattta caaaaaaaaa gtcagtttag agcattatct ttgacaaacc acaattcttt 120

tgctgcaaag gttaacaaat tttcacatct tccttaactc ggcttgaaac ttttcgaggt 180

cttcaagctt tccatcaaaa gtcattgctg aaaactcttt gccatggttc tttagcctct 240

ttactttagc gctttcactt gctttcattc ttcttgtttt cagcctctcc acgcttgcac 300

gaagttccga tgccattttc gtcatctctt tgaatatttc atccataaga agactcatca 360

taagagctcc aaagcttcat taacgagtct caanaag 397

<210> 181
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-E8

<400> 181

ttttttttttt ttcttaaaac tctcattaaa aacaatgata aatcaaacat gcttcgttcc 60

agcttggtta ctgttcttgc ccatctcaag cgcattccca tactcaccat cctccacaaa 120

ccttgaccaa taccagtgtg acctccacac ttgacccatc tcctctatcg gaatcccttt 180

cgtctccggc aagaaaatgt atacaaagat cgacatcacc accacgaaaa aggcgaaaac 240

aaggaataac ccaaacttca aatgacaaag catcgtcaag aagatttgcg cgataatgaa 300

cgtgaagatc atgttcacgg acacggtgat actctgcgcc gccgacctta tctccaacgg 360

ggaagatttc actcggtact aaccacccta gtgggcccca cgacnacgca aaanccggca 420

cattga 426

<210> 182
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-F7

<400> 182

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnga aaacctgaga catcatatta 60

tcatacaagt ctagatgaac agtgatgagt anataggtaa aaggtagaga gtcgagagat 120

acagagaaaa gagaacagtg actagtagtt cattacaana atttgttgat gctggttgcn 180

aaagtgtctt tagagacagc accgangatt gtatccttct tctcaccatt gacaaagatc 240

atgatagttg ggatgcttct aacaccatac tggccanggg ttgcaggaga cncatcagtg 300

ttaagtttgt agnaacttga actggccggc gtacttttgc ncnanttcgt tgacaatggg 360

atcaatcact ttgcaagggt cnacaccatg gtgcccaaaa agtccgnc 408

<210> 183
<211> 167
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-037-Q1-E1-F8

<400> 183

ttttttttt tttataaata cgagttccca tacacataaa atgaaaagaa accaaggtaa 60

gatatgtctc aagagtttta ttaagcatga gatgatgaaa atgttgttac caaatcttac 120

cttggtttct tttcatttta taaatacgag ttcccataca cataaaa 167

<210> 184
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-G10

<400> 184

ttttttttt tttcagaatc agtaaaactt agaatgagcc acatgaagaa agagatttca 60

ttagcagtga agaaaaaata gacaagcaag aaccgacgaa actctctctt gctctcaagt 120

tttgactcca attaataaaa tggcgacaca gtgaaaagaa aataatagtg ttttttttg 180

ccattgctct acgcctaaac tctctaaaac caatagagct ttttgtttca aaagcacatt 240

tacgcagcaa cagacacacg gggagcatca tccacgggtt tcgtagctct gttagcatca 300

tttccgccac cacgtcttac tcgtccattg ttaccattgg ccctcgggaa cccaccacca 360

tcaccatttg ctcggtttgc gtatccgcct cnattgtttc cc 402

<210> 185
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-G6

<400> 185

ttttttttttt tttaaagaag tgagaaactg gatttctaca attgaacaaa tatgtttcat 60

acaattgtgg aaatgacagt ttcagactca tccgttacat tttaacaaga atattgcctt 120

gtctttttca ttagnactac aataaaagcg ataaggatag tantattgtg ttttctctgt 180

gtgatgnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nctttaaacc ttgagaaaac gcagccagac gagtgcaagg gcttttgtgt 300

agtggggaac acntcaattc tggctttgat cgacttcttc ancanatncc ctggtngntt 360

gagaaagagt ttcaatcttg tcgtgaagcg tcacgacaag aatgatgggc atcatccaag 420

aangcttcca agac 434

<210> 186
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-G7

<400> 186

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

gatcaaagaa anaccaaata agatttcanc aaaagcanca aattgcaaat tcaanacaan 120

gacattacaa ngggatttca gacaagagtc aaagnttcag gtcaaaacaa cccaatttca 180

aacataaagt cnacaanang ctcaaaagac aaaccaaagt gatcatcatc anttcttagc 240

agcagctcct tttcctcnag ctgcacnacc agaactcgca cctgcagctt gagcagcttt 300

cttagccgct ttcncttgca atgctttccc atctctttca cggcgttgcc ccggngtcaa 360

naccatcgtc accattcagt acccttttcca ccagcacgag nggaagctct ttcacgggca 420

cgcnc 425

<210> 187
<211> 141
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-H1

<400> 187

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caattttgtt tgcttctttt gttacaaaag aagcaaacaa aatcaaattc tggttcaaat 120

aaggagaaaa aaaactcgag c 141

<210> 188
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-H10

<400> 188

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnag cgggagagtc tccggtattt 300

tgttgccgga gctacttccc ggaaacattc ctctctcatc atctgttgcc agcaacgtat 360

tctttcccat ctggctagcc anaaactggg ttctcctctc tc 402

<210> 189
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-H11

<400> 189

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agaaaagtac aaaaccacac atgacacaac agtactacac tctcaattat gtgtacatga 120

gctataaaac tgccccttg tttactaact agatatataa cgagtactgt ttaatttaat 180

ggtttgatat aactaaaaat taggagaaag agaagaagga gcgtttggca ggaggacgtc 240

caagggctct catgagatta gcaacttcaa ctacttttgc aacctctgtc cctctctttg 300

cctctgccgt cgctcttctc tcctccgctt tcctctgcgc tttcgccaca ttgttttgcg 360

ttttctccat cgcttttgct tttctctcct ctag 394

<210> 190
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-H12

<400> 190

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caagcttgtc atatacaaaa tagacaaagt tgcagacaac aaagtgtttg tttagatttg 120

atagtcgact tcatatgggt ttgtacctgc cctatagtaa caagcttcac attcaaacga 180

aggccgagat gcagcatcag tgattgcaat ctcatgtcga cgactactgt gattagtgca 240

atatgggtta ttgcagaatc tgcacttggg aagcacaagc caacattcaa gacacagaac 300

atcatcatta ccacacgctg cttcttgact ctcagtatct gaaccaacaa ggnacactgc 360

gcactctgca catcctaagg atacaaagcc aagcatccac cggaa 405

<210> 191
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-H5

<400> 191

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gtgatccctt tttaaatttg ttttgtttgt ctagcattat tatataaaat acgaattaaa 120

atcttacaaa tcataagatt gtttcccagt gaatttaacc tcaatgggac taacattttt 180

accgatggat ctcatgttta gtccaacacc ttctcttcct ggattcnctt tctctggata 240

aactccatct ttcgggtgaa gatattgaac ctctccgtta cgggaacact ctgtaaaact 300

ggtaangtga tcntgtactt tgacctcaac ctcgtagcna aagccaanac acgggttcnt 360

tcctcgncag tttcaagcag antcgggtcc gtctnctcat tanccgcagg ctcctcccgg 420

ntggca 426

<210> 192
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-B5

<400> 192

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ccatcaaagt tatcacaaaa ttcgaaagaa agagaaaggt agtttcagag aaaatggagg 120

acaaaagtta aaaataactc aatgaaaatc tgtttcccca taaaataaaa cttcaataga 180

agaagccgag aaccttgcct ccaacattct tccttctagc ttcttcatgg tccataatgc 240

cagcagatgt agtcagcacg atgtaaccaa actgtctaga agggagcaaa cgggcagtcc 300

aaccttcaat ttccttgaca ccaacatcaa aacgtgggct gataacacca cacttgttca 360

accttccgtt caattcaacg acgatnttgc cagatctgtg gtcanc 406

<210> 193
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-B9

<400> 193

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tacacaaacc attatacatg ccaagattca aacatttctc atcagaaact gactaaaaag 120

gcttgtcgct gcagaagtcg cagaagcact taagaccgtc gcattttcca cctttcgcgc 180

ccttgtaaaa acgacaattt cgataacaca acgacggata aatcctagcc atacaatagc 240

ttaaaggcgc atcaatgtat ccttttagac attccttatc tttcgcttct atctcaagat 300

atttcagagg tgaccaaaaa gaggattaaa aagattgcga agttagaaac tgacttcatt 360

gccatgccca tcttctctgt ctccggtagt cccccaancc tcccccc 407

<210> 194
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-C1

<400> 194

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acaagatatc cataacaaca caaacaaaat cacatagaag actctgtttc aagttccaac 120

aacacattat tcaaaaccca ctctttactt actcacttac tctcttctgc taagattagc 180

caagctcatc aagaattaat cccctgacga taataatgat cctacagcct cctccatgct 240

cttcccattt ggattcttgt tccattccaa cattttcta aaagtctcca cgaatttctc 300

cgcgtgaacc actctccatt cctcgaaatc ccattctcca tacattctag gatcatcttt 360

attaacccan acataagttt caactttcaa cttctcanga attta 405

<210> 195
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-036-Q1-E1-F9

<400> 195

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aacggagaca catggttgtt agtttctaaa acatgaagga tcattctgat tttgtattca 120

aagttcaaac caaaaaagaa cacgaaagca agagtcggaa acagagaaat gagcaaaaca 180

agcttttaga aaatcaacta gagagggagc gatctggtga tgattcttca ttcctctgca 240

gcacttgcgg cactcaggtc aacacttagg tccagttgct ttccggtgat tagggtatac 300

atgttcaaca catccgcaac agttgtctca aagtgtgttg tagcatcata gctcgttgaa 360

ataaagcagt tgtccaactc tggctccgtt gacaagg 397

<210> 196
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-G4

<400> 196

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cctagtaacc tatacagctt ccatacattg ggaaagtaag aagaaaaaac aaataaggga 120

caaagagtta cttgaaaaga atttatagtt cattttctac acattcaaag atgataaata 180

actccacagc ttaaagggaa gctttacttt acttttagct ttctttttt gattttgttt 240

tcttctgtac cggaagaant gaaacgatgt gtangataga tacattggtc ttcctccctt 300

cacaaaatgg tgcatgtgca cattactgcc tttggtgcnt tatcaacctt cttctcngnt 360

ttggntttag ctagagaang gntgtacaac ancatgcatc ccaatgnctc cac 413

<210> 197
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-036-Q1-E1-G5

<400> 197

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caacaaagat ggaaatatat aattaacgac gattttgttt tacatttcac acattttatt 120

tacagaactc aataatccag cagtgataag cttggcaaac gaacttgcaa tgggtaaagc 180

cagaagctgc agccaaagct tcaaactcag ctcttgatct ctcttttcct ccggaacatt 240

gtgtgaacat taacatgtcc atgtcaaagg caatgtttgc gttgatgtct ccattctctg 300

cctcatcagg agtgactaat tctataacaa ctactttacc gctttctggt agtgatttcc 360

aacaattctt aagaatcttg acacaatctt catcggtcca atcatgaaag tatac 415

<210> 198

<211> 373
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-F8

<400> 198

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atgttcatct tcgcgctagt agccaatgca acatatgttg gtagtattct tgtccgaaca 120

actgaatggg acaacatcaa accaaacctt ccttggttgc ttgatgctat tgtctgcgtc 180

gtactagatc tatttataat actgcagtat atctactaca agtattgcag gataaagagc 240

ttggaaagca gagaagaaga cgcctatgga gactatgtgg aagcaancaa aacttttgtt 300

tcgtgaatca ctatttatgt tacaaggata atttgatttt cttttgatct taagtattat 360

tgatttaaaa naa 373

<210> 199
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-G8

<400> 199

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ggaagagatt agaaatanag agagtgataa caattgaact cagtaaagaa tcanaaaagc 120

aaagagatcc aagattgcaa tttatgtccc agctggctaa tacaaacgaa catctaggaa 180

gtgtttgagc tatggattga ctatagcttg gatctgctcc aatgtcttcc cttttgtctc 240

aggcacgatg gcantgacga agacaatggc cagcgcgttg atggcancgt aaatgangaa 300

agttccgtaa ggagctccag gacatganga agttgaaagt gtaagaaana gcccacgctc 360

caagancaag ttcaccagcg tcgccaatgc ngcctgctac ctc 403

<210> 200
<211> 286
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-H3

<400> 200

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aggagttcca atcgaacaaa gtgtacattt tggaaacaac ttgcttaccg tcatcgctgg 180

aactgccgag agagctccca ctctcgaagc catttctact ttttttaaga gcttccaaaa 240

tgtacacttt gttcgattgg nantccnttt aacattgtca aaactc 286

<210> 201
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-H6

<400> 201

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aaattaagtt aacgtactag agagtagaga tccaaataca aaccataata tgttcgtctc 120

acaaagtnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnntcacat cacattcaca naaactcgtc ataaatanac catcccaatt 240

cccaaatggc ttangaanca aatgtccagg gcacaacagc aacacatggc cgcangacag 300

cctttgnaga atccgtcacc cttanacttg ggtttccacn ttagcctgag ctacngagag 360

catgactccg gttggctagt cggggtaacc aancgggcg 399

<210> 202
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-A12

<400> 202

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tctgcaatag taactatttc acagattggt tttatctttt ctatgtcttg tccttttttg 120

tccaatttaa gaccatanaa ggagaaaatc gtgtgaaaga caagacagat agacagacac 180

gaatattcag aannaaaaaa tttcttttct ctttctaaca ccacagattt cgcaatcgtg 240

ttttgatctg attcttccag gattctcccg gtggcggaga gaaganacag gggaaaccca 300

nnaagcattt ttcncaatgg ccgtcgacta cacggagaaa agtttgnann ctttcagann 360

naacaagatg gatcngtcnn ccgncggctg ccatgtggan acaa 404

<210> 203
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-A5

<400> 203

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn cgttttggtt tcgttttctc 180

atctattatt ttctcaacca gatctaacaa gatccccaac agctcagaaa catcaccgtc 240

ctcaaagatt cctccgcttg cctcagcctc tcactcgccg ccgcaccaaa tcgactcgat 300

tccaagatct cctttaagcc tcctcaccga cgacgacgac gacgcactcc gtgggagacg 360

aagaccgatt cttggcnggn agatcttaaa gtcgtatctc nggcc 405

<210> 204
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-A8

<400> 204

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catctctgta atatatgaag aagtgtacat acatgtaata tacacaaaga accnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnntttca aaatctacga 240

accaaataag actcttcttg atacaacaag acttgaatgg ttctcngttt ttgtcctctg 300

ataaaagact cccagcaaaa tcattcagat acgtgattta gtttctgcag tgttttgctt 360

tcngtccggg ngaaatcttg ganctgccgg tcgngttctt ccagcaacng atccactttt 420

<210> 205
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-B4

<400> 205

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tttaccacaa ncacaaagag cttcttttag ttctgatgga ttccacttgg ccatgtcaga 180

ttctttacag gctcnagaat agcttcaacc tcagacagag tttcntgatc catccccagn 240

ctttcaagct ctgtaactgc ngcancattt tcttcaacct gtgagacaga gctcatcnga 300

atcaacaccg angaaatctc cttgtttgcn aaactgtatt gcagagcnta acnntgtgat 360

catcnttgcc ctttgcgttt gcngtgagca actgcngggt tgcntgnagg acttgaggcc 420

cangggaac cg 432

<210> 206
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-B8

<400> 206

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aggaaacaac aaacatttta aagaacaaag cagtgaagaa aacacgcttc ctgttttgat 120

gagcagatca cttagatggg tctctatggc tctcctccaa gctcaactct caggttgtca 180

tatggataca ctctcggtgt aaatggaacc ttagaagctt tgtcgttcaa aacagcgagc 240

agaccgagac cancagagaa ccctaatccg ccactcaacc atgccaatgc ttcatacttt 300

ccgacggtat cagcaatccg atctatgcaa ggctctggaa acgcagtcnc gttgtcccan 360

atcagctcgt cgtttaancg atagcggntt atcggggacg atgtgtttgc cnacgggg 418

<210> 207
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-037-Q1-E1-C10

<400> 207

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tatatatatg tagagaagaa acgaaaccac gcgcgaagac actcactcat tagaacaaac 180

tctttgaaca gagagtgata tctacgacca gccaaaccag taatcaagaa tatagaccag 240

acccaaggag aatgggtaaa gcaagtaagc tatgaaacat gtccaaagag gataagttgt 300

gcggaaactc gcgaaaccgc ccatcaccag acaaacgatg agaatcacca acacttctga 360

tgagaagttc catgtcagtc ctcgaacggt agacgattgc 400

<210> 208
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-D12

<400> 208

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ctcgggaaca ttaagtatac tttaataaag acagttttaa gttttttttt ttaaaggatg 180

aggatgatga atgcaagact tttatagggt caagctttcc gatttgatgg aaccacagaa 240

acatggaagt antcctttcc attctttgcc ggggttcact gtgatcggtt tcgcnacagc 300

cgcgctttcc accgttacaa aacgcttana gncntcaact cccaaatcgg atacnttctt 360

agcccatgga ttccanacca acggggatc 389

<210> 209
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-D4

<400> 209

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catctgtgtt tcatcatcat cgtctcgtgg aagctgcgag gaggagatcc ggtggaagac 180

ggtggtggag ctctgttgaa tctctcaggg ctacngctcc tttctcgctc tcttccccat 240

ccantgntgc ttctactgtc acggggaagc aaagctacct ctgccaccat aaccagagtc 300

gccaaccacg accacgggcc gccnggaagg aggtccccaa cgactgaaat tttgttcaat 360

cccccancac cacgtgtagc catttcgncg gatntgaggg nggaactccc tgggttt 417

<210> 210
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-E11

<400> 210

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caagtgatct ctttctcaat tgcacatcaa atgaggtaac aattacaaca aaaaactata 180

aacctccccc caattgtaat ctaagaaaaa atgaataact ttaaacaagt caaacttgat 240

ctcattgtan aaaatctgta agagaagctt gtatatcttc caatgttctt cctttagttt 300

cgggtaccat ccgcataant aangacnana cccgcaccac atanagtaaa cgtcgagncg 360

ggttcccgag cttacngtan gcgtggcagg gcgangtcat a 401

<210> 211
<211> 411
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-E6

<400> 211

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atacaaaata tctgtttttg ttattgctac aaagaaacaa ccagaaatta tattcttctc 120

tttgttttat ctatcttaca catttgctga tgatcttcat atatagaacc accacacaaa 180

ggaaacttcc ttgaggaatt tatactcttt gtcttttcga gctcatgcgt ggcgcgaacc 240

cttttaaaaa gccgagtcaa agatgatcag atcagcttaa acattctcaa aaccactttc 300

tcatggatta agtgagcttc tttcacctta taatccttat cccatatagt gttgtttcca 360

cacctaaaga cgtatagtgg ncacaatttt cgtcacatgg gaccnatatt c 411

<210> 212
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-035-Q1-E1-H10

<400> 212

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cttattaaaa atgataacca ttgaaaatag tacttaagaa gattaaaaaa ccaaaagcaa 120

gaagagtcat agactcaaaa acataacaag acacaaagta cttaaagtag caaataaatt 180

acttgctaac attttcttct tcttttgtct ttcaaaagac agttttttc ttcacattta 240

ctcancagcc ttctccactg gagctgtcac ggaggcttcn acggcgggtt tctcctcctc 300

tgcctcnggn ttcntctctt cctccacaaa ccanntggag cttcctcggt cttccgtncc 360

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<210> 213
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-A4

<400> 213

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gatatacaaa cacataaact ganaaacgca aagtcctcgc aagtacctct tcatttccac 180

acaaaggcaa cacacttgct tagcacacac cattcatctt cntcctctcc ttcacaaact 240

tcctccatcc aacagtaagc ttccatcaag aancnccttc gccatctncg tcncctttac 300

attttccgcg atcccttcta ntcccatnnt ctnagagatc ttggaagggc aaggtatcga 360

gctcatgaag caccttcgaa atatcaggca anaagtcgc 399

<210> 214
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-B2

<400> 214

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aaaaacacag tacaaaagat gctatattct aagacattga agaaccccaa aattaagaga 120

gaacataaat tatgcaagta gaaaacaaac ccagtanaag aaagccaaga ccagttttag 180

tttcgtttgc ctcgaaggac acccttacta cgacgattct tcatccccag cttaaacttc 240

ttcttcaact tcttcccaat aggttttagc gacttgtttt tcttctcanc atcnatttcc 300

ncatcacgag cgntggcgat tgtantggag gcangatgca tnactcanag gaaggcgtcg 360

cannettcca naancggaga aanctggggc ttgacgaacn gggnacttcn ggggcagcga 420

gatt 424

<210> 215
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-035-Q1-E1-G5

<400> 215

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aaagagaaaa aaaaagagaa tcctcacaat aaaaatacaa agaattgaaa gaacaaaaga 120

agaagaggaa gatttaatgt aatactcaac acctaatgat tctctaatgt cttcaaaatc 180

ttctgctctt cctcaactta cttttcctct gtttcaagag ttttttgccc attcacacta 240

caaatacaaa ntanncgcaa anacaatcaa ttctcatcta acttttaatc cctccaattg 300

attgctctcn tccttcatct cttctaaagc taaaaacttt tcttcncact gacnctttcc 360

nannccnggc aganngaanc acttcacgca tggaaaanga a 401

<210> 216
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-B3

<400> 216

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gacatgaagt tgaagaatga catactgtag gagcaaaagt tgcaaccatg gaaaaagcta 120

aaaattgaag ctttgtaatg ttccattctc ttacacaaag atgctactat ctggagccac 180

tagaccctca agtttccatc caccaggccc ggacagcgca aaagcttctt cccaggagtt 240

gccaaaagcc tgaagcaaag cagcattgca tgttttcaac ttaatagaag ctccagagag 300

catggaagct gcttcttccc aacccttatt atgccccata cacatgatag tggagatatc 360

aggggttgaa tatttgggag ataatgtttt gaagatgctc ggctgtttgg gcatccanaa 420

ca 422

<210> 217
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-B4

<400> 217

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actttattga tactgggatg aaacaataat aatagtaacg acatttatct tgtcactgcc 120

ggaaatgcta taanagaaag aaaagaacaa aatctttatt atgaancttt ggtgtcatgg 180

tggtgttcag tttctcagac ggctttggtg acaacagcat ggatagcgtc tgcaaggtga 240

ggtacagtct tcgaactcag accagccatg cttatcctcc cgtcagatgt catgtagatg 300

tggtactctt tagtcangaa ggagacttna gctgggttta accctgtgaa ggtaaacata 360

ccaatnctgc tntantgant gtgacgccag tctccaggag tcctccnagt acgtt 415

<210> 218
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-B8

<400> 218

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tattatttag caacctttta tttatacaca caaatgtaat acgaatgcaa agcagggaga 120

gaagtgacaa ataatcaact tcatttacat ctaaagttga aatttctatt cacttatcca 180

aaagtactag gacaatatga ctcatcggtg aaggcgtctg gtgctgacaa gttcaatgtc 240

aaaaacgaga gttccaagag tagaaccttc tccattggcg agacgtgttg ggttaaatat 300

agtcgtgaag agtctctgtc tgtcaaagaa gtttggtggg gagaggctcc tgtgatgtat 360

tctggtatcc ctgagatgga ggnataacca nccggacgaa tcccgcccta cnt 413

<210> 219
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-C2

<400> 219

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ttgaataaac cccaataatg cagtaacaag agattctgat aagctttttc tcttgggtta 120

aaaaggagtc aagagatata taacatacag tttttccgcg tatgtaatat gcacaaacca 180

aacgcaggaa tagaggaaga atttggattt gatcnttaag atctcactca ntcttgatta 240

ctttttgtca gttgncactc caacaanaac attgctcacc aactttccgc tttcancaac 300

ggacatgggg ttttctaaaa caacggtttg ggtctgagag ggtggtgttg aanttgaggt 360

agaggggggg acaagcctgn tccattnggc ccgttagttg ggaaaagtnc c 411

<210> 220
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-C3

<400> 220

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aaagctacaa agggcataaa agcccataac agacagccat gaaataggcc cattagagat 120

acagttcaag gaacgtgtca gaatcataaa gataagctga ggacacgtgt tacttccaca 180

atctctgctg gatgagactt caaatcacgg tgaatcatag aacgtcgtcg gaaaacgaag 240

ccgaacaacg aatcttcttt tttctcaccg attatggcaa tcacgagtat ggaggacaaa 300

acatcaatat actgagcttt taaccagcta acttaggcgc agaactgtct tgacaactaa 360

atcgaaagaa acatctagga ttcaacaaaa gctatcaaca nataaaccc 409

<210> 221
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-C4

<400> 221

ttttttttt ttaagaaaaa gaaaaaaatc tttcgttact tcgagactaa tacatatcca 60

cacatttcnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnntc gttatgatta ccccaatcca atagactatg 180

tatgtgtcgt atctctatat acatcnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnngccat cancnagaca ctgcatgacc ttgacctgca tacnaaggca 300

cttgatgtaa tgagccgtct cttccatcag ctttgacgtc nccattcctc ngcctcgcgg 360

aacaggattc ctcaggcctc gtccgncggc ct 392

<210> 222
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-C6

<400> 222

ttttttttt ttttcatgt aaaggcactg attttatata tcacacaatg aaactgttac 60

tacaagttaa cgtaagagaa tagtgaagga acaagatcaa caacggacca ggcaaggcct 120

gcatattgga agaaccttat accagtatca atatcaaacg agtcgtggct caaaaactcg 180

catagtttct gcaaatatcc aactgaattc ttgggttcgt ctgtcttctt cccacttgca 240

taccccttga gcttgggaat gtacatgctg gatcttattg gaatcccaag tgcgttggat 300

accattggta aagtccattt tgcaagagat ttactgcaga acttcactaa tagtatccgt 360

cggtattccc accatgactc taccaaggta ggatganata gggagctctg ggga 414

<210> 223
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-D1

<400> 223

ttttttttt ttaaagaaaa taatattatt acaaatactt ttttccacgt aaaaacagca 60

taaaaactac ttttaccatc gagtaaaaac aaaaaagtgc agtggaactc atacgtccag 120

atccagcaat tacgcacacg acacaaacna nttttgtcat ccagtcatca ccanatctag 180

aacacaaact anaaaatacg tatcgtanat gaccnanacg ccattcagat tcaggggtan 240

ttaccacgaa nagtacaaat tggaaagcga gggaaaggac gattccgaca aagggtaaat 300

ncgtaagctt cacttanncc gntcttgngc atnctctctg taccttagga nacgaancta 360

ccctctgtgg ctaagnctgt tgcttaaacc tgttgatgan aattgaaggc tt 412

<210> 224
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-E9

<400> 224

tttttttttt tttggagaca aaggagcatt tgttttattc attttatcaa gaanacagag 60

atacagaaaa ttaatgaaag cattttgag aaagaaaatg catagatcaa atanaaatac 120

tataaggaac acccattccg gtaacaccat gctcagaggt aggcttcaaa agctcatact 180

taacaacacc agctccagct ctattcttta gagtaatgtt cacgtttctc tcatctatca 240

ctccttctag atattggagc ttgcctttga atctttcana tgcagcattg ataacaggct 300

cattggccca agatgcntct tgtngttctc caatgtactc ttccgtcagg tgaatgtgtt 360

gataanagga tcaacgtgac catcactagg gtcgcct 397

<210> 225
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-F2

<400> 225

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aaactctgtt gcagaaaagt cttaaccaac ataacattaa actgctttca catagaaagc 120

aaaagtctta aacaacatta cattaactcc tttcacataa acagaaaagt cttaaacaac 180

attacataaa ctcctttcac acagacacaa aaggctcttt cntgctcaac gcatcaacac 240

tcttagttca agatttcacc tgtnatgggt gaaacatgtn ggctcntaca cntctgccca 300

tttttcgaac cgaccactac cataggcttt ggtggtatca aaccgggccc tgaaaagcat 360

gcnttcacng tgtcngttgg ntgnncctcc aacagatnng caagnacctg gagtccggcc 420

aaa 423

<210> 226
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-F6

<400> 226

ttttttttt tttattagaa atatacttca tttatgatgt acgaaaagaa agatcgaatg 60

tgtaatacca aaattagaga gaaaaatatc ttaataattt ttttcataac ttaaaaaacg 120

taatagtttc gcagaaaaga ccttcagaaa gtgtaacaaa aaattataaa actaacaaaa 180

ttcaaccaaa gagaaacgaa agacagagat agcgaggctg aaggaccagg ggtctttact 240

agcccaacga agggaactga gctgtgtctc caatcgccgg agctgcagct tcttttgcat 300

acctttggtt tcctccttca ccacgaccac cgcgacctcc tcttccgcgg ggagcctcca 360

cntctcccgt tgtactcttt ccatcaagcc gggcntc 397

<210> 227
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-036-Q1-E1-F7

<400> 227

ttttttttt ttttnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn caccacacca attattcgca 120

taaatagtat agatatatca aacgatccaa ttcgggttca gtttagaaac cgtggatctt 180

gatctgatcc ttcttagcaa tcccagtttg gaccaagaac tgagacactt tcttcctttg 240

atcaccttga agctggatga tcttgcctag ttctttgtcc tgcacaacgt taccgttgca 300

gcagaaatct ttcttcaaat ccttgngaat cctctccgta gctgtactct ttcttaagcc 360

cttgaacaag tcgtcaagct ctttttccca ttcctccgct ggnttcgaaa tgtg 414

<210> 228
<211> 311
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-H1

<400> 228

aaagacggtt cgttgcacaa gcgaagacaa gccttgggat atatctacga gaaacagatt 60

gttcacgctc tgtttgctga ggttcctgat agatacggtg agagaaacgg tggatacacg 120

aggatcatca gaactcttcc aaggagaggt gataatgctc caatggctta cattgagctt 180

gtctaaggtc aatatctctt ttattttgct caattgtttc acttttgctc tgtaatattg 240

aaaaaacagt tgttgatgca gatatgagat cattttgttt ngtgaaacaa aatgatttca 300

tanctgcatc a 311

<210> 229
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-H5

<400> 229

attgaattta acgaacacta tagaccagct atgacgtcna atgcacgcgt acgtaagctc 60

ggaattcggc tcgagcggct cgagggaacc gatgattgtt ggtagaaagt tcttggtcaa 120

ggtcaatgcg aatatcggaa actctgctgt tgccagctct attgaagagg aagtctacaa 180

ggttcagtgg gcaaccatgt ggggagctga tacaatcatg gatctctcaa ctggtcgtca 240

catccatgag acacgtgagt ggatcctaag gaattcagct gtgcctgttg gtacggtgcc 300

tatttatcaa gcacttgaga aagtggatgg aattgctgag aatcttaact gggaggtttt 360

cagagagact ctgattgaac aagctgagca agggtgtaaa ctatttcaca tccatgcctg 420

gantttgct gcntaaaatt cccttaatgg caanccttg aacnggattg nttccccttg 480

anggttcaat caag 494

<210> 230
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-030-Q1-B1-H7

<400> 230

gagacaaaaa ccaacccaaa ttctttctat atattaaaaa aaaatcaaca caaaggaaaa 60

aaaaatggat tacgttttgg ntgttttgcc acttgcattg tttctcatag cttacaaatt 120

cttattctca tccaaaacgc agggcttcaa tctcccacca ggaccaactc cgtttcctat 180

cgtcggccat ctccacctag tgaaaccacc ggtccaccgt ctcttccgcc gcttcgctga 240

aaaatacggc gacatcttct ccctccgtta cggctctcgc caagtcgtag tgatctcttc 300

attgcctctc gtaagagaat ccttcaccgg tcaaaacgaa gtcatttaac aaacagaccg 360

aatttccgga cggcaaatan gtnnctaaga ataacacaat ataggaacgg cggcttangg 420

t 421

<210> 231
<211> 387
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-A2

<400> 231

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnactaagaa canaaaatcc antaacaagc tcaagcatta 120

catcaaactc aanattgaga naacaaaggt tctatcatga anaagctcaa gcattacatc 180

aaactcaaca gtgacanaac aaagcttttt cncacaaaaa caatagataa cagtanaaac 240

aaacatagaa aaacatagca aaccaaagan atttttcnct tttaaagtcn caaancttca 300

anaacattgg aaaccangtt gaacnattgt ggcaanaaag ttccccaagg tttccaaggg 360

ttcttgaaga tttgaaacca tgagccc 387

<210> 232
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-A7

<400> 232

ttttttttt ttgaatgaag ttgtttatag gttcataact tcacaacaca atgtaaaaac 60

ataatcaagt accagtacca tcactcaaaa ataacagaat aagagaatag atctttcaag 120

gggatgatga taataaactt tggtttttac tttttanttg gcacggctcc tgaaaacatc 180

gagatccatc tctgttggat cagttgcctg tagctctact tgaatcccat ctaagttccc 240

tcttgaacct gtccttggag ctcgcgtaga tcatctngct tctcaccttа gcaatatccg 300

gacaccacgc gantgaagaa gatcttgctc ttctggcaan tctcagcaag ttacaaagtc 360

aaaatcgnaa atggcgtaac gggcattcat caancggaag acatgcgc 408

<210> 233
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-G1

<400> 233

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ggaattcggc tcgagggtgg tgtcattccc ccagcgtgtt gctccggcgt taaaaacctc 120

aacagcatag ccaagacgac cccagaccgt cagcaagctt gcaattgcat tcaaggtgcc 180

gctagagcct taggctctgg tctcaacgct ggccgtgcag ctggaattcc taaggcatgt 240

ggagtcaata ttccttacaa aatcagcacc agcaccaact gcaaaaccgt gaggtgatga 300

gctagcaacg gtgagatgat gctactaccg gaagtttcga atccttatta tataatggat 360

gagattaata ttaaataaga tgttcgaatg tttgntttta aagtttttaa tttcctgtcc 420

ttttccaatg tggtgttcct gttanatggg tttgtcngta ctatgttccc aagnaacaac 480

gttatatgaa atttca 496

<210> 234
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-C5

<400> 234

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gagagataaa cgaagaaagc atcaaaagat gttatcatta tcatcaaaca caatcaacgg 120

aaaatntaat aacatgatca cncaagttga ccataccaca ccccttggat cttcacatcc 180

tttggtacct tagcacccaa gtcagtatcc gacggctgaa gactctcgaa cactccgatc 240

acctctcctg tctccggctt gctctttgtc actttcagag tgatctctcc cactgaagcg 300

gcangtgttc ttcangttct cctttacaag ctccncctcg tcncctctgc ctcnatctgg 360

caatgccacg gagttgtcat atcctggtgn gattcaccag ggccctttg 409

<210> 235
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-D4

<400> 235

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tcacatgaag acttatcaac aaacagaggt taggattttc ggagatgaga attattacaa 120

acgaatcaat caaaatgcaa agttgatttt tctattaatc aacaaggttc acttgtgttc 180

aagccaaatt ttaaacaagc caactaaatt tgagacgaga ttttcaaatg atttatacca 240

atcatatcat tggacaatga ccgtaaattc cgaaactctt gatgatcttg agagtgtatg 300

tattcatgac caaggccagt tcgcatctcg ccacgcaaag cgacatcctc caaaactact 360

actacaanca tctcccttta acccatcaaa attgttggnt ttaac 405

<210> 236
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-D6

<400> 236

ttttttttt ttttttttt tggtgtcnat aaacacaaat tttctaatta aaaaaagaca 60

aatcgttaat agataaataa aatttaaaca aaagataacg aaaaacatac attcatatcc 120

ttgatgtaat tcaacctcca gaactttaag tattaactta gaataacatg agaaaactag 180

tactgtccca aaaaaagaac catccccatt gggttttaaa ccagaaaacg aaaaggctct 240

ctaagcaact ggcattgctg gataatctgt ggtggttaat ggagcttccg gtacaaaagc 300

agcttgagta acaacctgag caggtgcaat gtatacatca tcttctttcg gtgtatggat 360

gatcacaaca tcaggcaatg gtgtcatcng tcccttggtt tgcccctggg ggtcccaat 419

<210> 237
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-E6

<400> 237

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn cccaaatgtc 60

acattganga agagaaacat tnggtttttg gaagaaaaat tgtanctaca gaatcaaaaa 120

catcannccg ttttctcaca aaccaaganc accnaaaggc gttttccccn gcccggcctc 180

aaagtaaaan atcaacatgg caaccattgc gagcctcaan tgcttaatct ctgccaattt 240

cagcctctcc agcttctcaa agtccggctc ataaacaccg tcgcggtttt tcccggcnag 300

acccaaggga tcgaagaatc tcccaacggg gtatcccgna tcgccggtac cagttccgcg 360

aaattctcgg ccgtcttcga ccangggcgt t 391

<210> 238
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-E8

<400> 238

tagaactagt ttttttttt ttttttgat tagaatctgc acatttagat taatatatag 60

ttaagcaagt ctgcagtttt gctgcaataa cttataagtt aacaggaaaa atgaaaaaga 120

gctttttgt tttgttttgt ttgatctctc tctctctctc gagtaagtca ttcgaatcat 180

agacatataa gaatcagaca cttgcagggt cgaaatgatg attaaatctc taagcttctg 240

gttccatagc tcaaccttgg ctatcgagat taccatggcc gctacttcct ccacttccat 300

aagacacatc atcaccacca ccagctgaat tctgccaaac gctttgccat gcctgagaan 360

gangctgagc ataaacaccg ctaggattca tcgccggtct tccaaacanc atc 413

<210> 239
<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-F2

<400> 239

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acagaacaat ataatctgtg agaagataaa agtaccaaaa ggtaaaatct atgaataaca 120

caaaaatgtt acctaacaac atataacaat aaaccaagaa gttccaagtc tttggcctgt 180

agtctcccta gacccaaata agacctcatt tattggtaac tatagcatgt cgaactagtg 240

gtagagttct aaacctcctc aggaacaaat agctcacata gtagataatt cataattgta 300

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taatccccgc tgtgtgccac ttn 383

<210> 240
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-F4

<400> 240

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acagatattt tctttcatac agaattaaag aaaaaagggt tcaatcacac tatcacacgt 120

cgcttacgtt aactaacggc ggtggtgagc tccggcggcg atcggagctg gaggtggttt 180

gcattggtag catttggcaa agaggccaaa agtatcaatt tgcctgatga agttggtcat 240

actggcccat ccgccaaacc cgaacccgag aactaggacc caaaccacta tgaaagcgtt 300

tatcacgtaa actccagccc agctagggat aaaaaacggt ggtttctccg ccgcgttccg 360

gccgggcaaa agccgttgcc ggtacgtnaa ccatttggg 399

<210> 241
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-F5

<400> 241

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnngac cgttatgaat acaaatcaaa ctatggagaa aaaccaaact cgaataaact 120

ttttggttgc accaataaac agcataagca atgaaagctt gaaacaaatc taattatgag 180

attctcggtg aaaataaaac accacaaaac aagaatctcc aaagcaaatc tgataacatt 240

acatacaaag ctgagttttt gacttattcg caagcaagtt ttgtgtcgaa actgctcaaa 300

cagatagcga aagcctgaaa cgcagagagc ggataccgga aatccatcgt gaacangtct 360

tttcccactt tccaagnctg caggtaagat cttgtcggga acatcgggtc t 411

<210> 242
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-G1

<400> 242

ttttttttttt tttattgggg aaaactgata ttcaatttct catagagagt gaactgtaca 60

cagggaaaaa tgaanaacaa tatatcncct ttggatttac agtggatgtt gtccttttac 120

ctacgcaaaa gttctttgtt tcancggttt tttagatgaa tccacaaact ccagatcttt 180

tactcggcaa agctctttct tcggtgagaa taaaccatca ttaataanct acacttgtct 240

gaggttgctg gtgaataagg agctgcaaaa acttccatta natttcttta ntaacantta 300

accggagaaa ggtactttat cancnccacg atcnactggg ttcctccann agtcatnncg 360

aattccgagc ttgtcaaaat ctactggtaa nttccanaag gtttgccccg tt 412

<210> 243
<211> 666
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-G10

<400> 243

ttttttttt ttggaggtgc ttcatcctct ttaggagctg ttggttcttg agtgacaggc 60

ttagtaggga ctggtttgac ctctttggtt gcaactgatg ccttcggtgg agggacataa 120

ggccgtttgg aaggaatctt ttcaagaagc ttttcaattg gagttaatgg tgcagttgtt 180

tcagcaacca cttccacaat cttagagaaa gaaagttgag gattctttgc catgcaagca 240

agcaactctg caacctggag atttgagacc tgaccaccaa acaatgtatc gtctagagca 300

agagtgagat catgagtttc tttgtatgca tcagtcggtc tctccattcc tccaggtcta 360

actattgcgt aattaagacc gctttcaatc aatgcttctt cagcttttct cttccagcaa 420

aagaactccc cagaataggt tgagaatcnc agcgggaaat ccaaatttat ttgtcccaag 480

gatgtcacca aaaatgaaag ttattaactt ttgctgatgt tgcagcatca acaaggtttt 540

tgggtggcta aggttaaccg attctggtaa ggaccggtta atatccggaa atntcnttcc 600

tcgctaagca ccaattnagc ataataatca ccgaatgcaa ttccccaaat gcggggctgt 660

aattna 666

<210> 244
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-C7

<400> 244

ggtggtaatc ntgcagtagn ctgtgaatta ccngagacac taggnnccga gctatgacgt 60

aaaatgcacg cgtacgtaag ctcggaattc ggctcgagcc tccggccaac cttaaccctt 120

aagcgaacgg tgttcctttg cggattgcga tcgttccgtc gatcccttca tcgcncgatc 180

taaatctcta atcgtgtcgg agattaaaag cagaggtttt gtggtgaatc atgtctgatg 240

tcccttcttg ttctagcggt aatgatacaa acaacaatga ttcgagtaac ttcgaatgta 300

acatctgctt agacttggct caagatccta ttgtcactct ctgtggtcac ttgttctgtt 360

ggccttgttt atacaaatgg ctccatctcc attctcaatc taaggactgt cctgtttgca 420

aagccgtgat cgaagaagac agattggntc ctttgttcgg tanaggtaaa tcgtcctgct 480

gancctcggt ccaagtccaa tccgggtccc gaaat 515

<210> 245
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-C8

<400> 245

cctcaaaact tgttggtaaa tccacacact catcaagtga aactatgcga ttttggaagt 60

gcgaaagtnn nggttaaagg agagccaaac atttcataca tttgctcgag gtattacaga 120

gcacctgagc tcatttttgg agccaccgag tatactacag ccattgatgt ctggtctgca 180

ggatgtgttc tcgccgagct tcttctcggg cagccattgt tcccgggtga gagcggtgtt 240

gatcaacttg tanagattat aaaggttttg ggaacaccaa caagggaaga aatcaaatgc 300

atgaancccg aatttacaca gaagttcaaa tttcctcaaa ttaaagctca tccatggcat 360

aagattttcc acaagaagaa tgctccaaaa nctgttg 397

<210> 246
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-D1

<400> 246

gagcttaagc tttatttctc cgttttcgtt ttgtctttct ttatcgtctc ggtttcgtcg 60

tctgatgtca acgacggcgn ngatctcgtg atccgtcagg tggttggtgg agccgagcct 120

caggttttga cctcagagga tcacttttct ctcttcaagc ggaagttcgg gaaggtctac 180

gcttccaacg aggagcatga ctatagattc tcggttttca aagcgaatct caggcgagcg 240

aggcgtcacc aagaagttgg atccgtcggc gactcatggt gttacgcaag ttctcaaatt 300

tgactcggtc tgagttccgt aagaaacact gggggttaaa aatgggttta aagcctccca 360

aaagatgcaa caagggtccg attcccccta acgaaaatct ccctgaagga tttgattgga 420

gaa 423

<210> 247
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-C4

<400> 247

aagagaagac agtgaagaaa ggtttaatcg gcggaatgag cttcgctaaa gacgccggaa 60

aaatcaattg gtttcccggt natatggctg cagctactcg cgccattcgt aaccgcctca 120

agctctccga tctcgttatc gaagttcgcg atgctcgtat tcctctgtca tcggcgaacg 180

aagatctaca atcccaaatg tcagctaaga gacgtatcat tgctctgaat aagaaagatt 240

tagcaaaccc taaatgttct caataaatgg actcgtcatt tcgaatccag caagcaagat 300

tgtattgcca ttaatgctca tagcagaagc tctgtcatga agctgcttga tctcgtggag 360

ttgaagctca aagaantgat tgctaaggag cctactttac ttgtaatggt ggttggtgtc 420

cccaat 426

<210> 248
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-D3

<400> 248

aattncnggn caaattgacc ntaccttaan ctggaaggat gtccantggc tccagacaat 60

caccaagttg cccattcttg nnaaaggtgt tcttacagga gaggatgcaa ggatagcgat 120

tcaagctggt gcagccggaa tcattgtatc aaaccatgga gctcgccagc ttgactatgt 180

cccagcaacc atctcggccc ttgaagaggt tgtcaaagcg acacaaggac gaattcctgt 240

cttcttggat ggtggtgttc gacgtggcac tgatgtcttc aaagcacttg cacttggagc 300

ctccgggata tttattggaa gaccaatggg tattcctcaa tggcaactga aaggagaagc 360

tggagttana aaaggtgcnt caaatgctac gtgatgaatt cnaactganc atggcactga 420

attggt 426

<210> 249
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-D4

<400> 249

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tggctatcat catagccagn gaccattttg ctatcatctt cacaagcagt aaagtacttc 120

agcgtgcagt gtctaagcta gcttatcttc ttggtataac catggttctc aacagtgtgc 180

agccggttgt ttctggtgtg gctgttggag gcggttggca aggcttagtg gcctatatca 240

acttgggctg ttactacatt tttgggcctt ccctttggat atcttccttg gttacattgc 300

aaaactttgg agtgatggga actttgggcc tggaatgata accggggaca acgcttcaaa 360

ccgttgttac tgttgattgt tccggtataa gacaaactgg aataaagaag tgggaaggan 420

a 421

<210> 250
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-D5

<400> 250

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ggaaccaagc gagagttctc agaaagcgag tcagtttcag gagcaagagt tagctcaggg 120

tcgtgggacg gctaatgtgg tgcctcaacc tatgtgggcg gttgcgccag ggactacgaa 180

tggaggtagt gcgttctgga tgcttccgat gagcggttcg ggtgggcggg agcagatgca 240

gcagcagcct ggtcaccaaa tgtgggcgtt taatccangg aattatccag ttgggacang 300

acgagtagta actgcaccaa tggggtcaat gatgttggga ggtcaacanc taggattagg 360

attggcanag ggcaacatgg cggctgcaat gc 392

<210> 251
<211> 346
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-D6

<400> 251

gctaggtgcc aatgattctc ctccccaccg tatgaggnng ctgctgatcc ggcggcggag 60

ttaaactcgc cggaagatgt attcgganaa taactaggac cggagccgtg ggccatgcaa 120

accgttggta ctattccatt actacacagc ctacaggagc tactcatatn aagcattana 180

ctttggcaca aaagaggctc anaaacattg caagcatgga taccantcgt tggtcnaaaa 240

atcagganta cccatttgct gattttgagt tcccctccct ttgctttttc ancattctcg 300

aattctttgt gttggtcgga ggattcaaat gaantttaa agcaaa 346

<210> 252
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-D7

<400> 252

gagtaaattt ttattttgtc tcttatctac tttagagttt agaagttcca tattaaaaat 60

tttagttatg aaacaatagn gaccaaaaaa ttgccaagat tgttcttgaa tcttacttgt 120

gcattgtaaa tagagtctgt tagcaaactt tgaccattga gtattttgtg ctttgtgtct 180

agattcttga atcttattct atggttattg gacttcataa atccattttg ttctttagta 240

gttggtaccc aaatattgat ttttcaatag tttcagaaaa cagaccaaca tggaagatcg 300

gtgcttgatc aagaacgata tcactgaatt gattggtaac acaccaatgg gtatcggaac 360

aatgttgttg atgggttgcg tggcncgtat cgctg 395

<210> 253
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-D8

<400> 253

tgtttaaaga atacaaagag gtacagcgag agaaagtagg ngatcctgat attcaattga 60

tctgtgacga taccaacata ttcaaatgga ccgctcttat caaaggacct tcggagactc 120

cttacgaagg cggtgttttt cagcttgctt tttctgttcc tgaaccttat cctttgcaac 180

ctcctcangt tcgattcttg accaagatat tccatcctaa atgtcatttc aaagacaggg 240

agaaatatgt ctccgacatt ttgaaagaat gctggagtcc tgcttggacg cctcaatctg 300

tgtgtaagag ctatcatanc attgatggnt caacctgaac cggacagtcc tccttaactg 360

cgactcaagg aatcctccaa agattcgggt g 391

<210> 254
<211> 363
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-E6

<400> 254

gagacagaaa ataaaaaaca atggcgaata agttcactag acaacagatt tcagagttta 60

gggaacagtt cagcgtanng gacaagaatg gtgatggtca cattaccaca gaggagttcg 120

gtgccgtgat gcgttccctc ggtttaaacc tgacccaagc tgagcttcag gaggagatca 180

acgattcgga tttagatggt gacggaacca tcaatttcac tgagttcttg tgcgcaatgg 240

ctaaggacac ttactctgag aaagacctca ngatagattt cagactcttt gcatanacaa 300

gaatggtttc acctcactgt gaattgagat anttgaggac aacctccggg tggaaccaac 360

cng 363

<210> 255
<211> 468
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-F3

<400> 255

tatgacgtng aaaacacgcn ttnnttancn ncggantncg gtncaattnt cggcnggnat 60

tcaactggtg ctggggttaa tggcggtagt tcgctgattc atgatttcta tgctagagaa 120

gtagncaacc caattcacct aactgtggat actgggttta ctaatggtga gggtactatc 180

aaagcttttg tctcttcaaa cctctcactc ggtgatcgac aactcgttgc acattttcaa 240

gagattcctg ttgatctccg catggttgat gctgagagag tcggattcga tgtacttaag 300

gcaacatctg ttgacaaact cccaaatgac ttggaaggaa tggagttaac aatggagagg 360

ctgttaactc taatcaacga tgtctacaaa tatgttgaca gtgtcgtggg aagtcaaata 420

gctccaagac aacaacattg gacgattcat tgcaaatgca gtaacctc 468

<210> 256
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-F4

<400> 256

cagcantctg aatttaagga acactatagn cccgctatga cgtnnaaanc angccttnnt 60

tancnccgga attcggcnca aggttgattt ctataggaaa atcccgaggg atttgacaga 120

ggcgtctctg tctggtgctg gattgtccat tatagcagnn ctctctatga tatttctatt 180

tggaatggag ttgaataatt atttggctgt cagcacttcc acatcggtca ttgttgacag 240

gagcgctgac ggagacttct tgcgcttaga ttttaatata agcttcccgt cactttcatg 300

tgaattcgca tctgtggatg tcagtgatgt attaggaact aacaggctaa atgtaacaaa 360

gacaattcgg aagttttcta ttgattcgaa tatgagaccc actggttctg agtttcatgc 420

cggggaagtt ttatcactca ttaatcatgg agatgaaact ggtgaagaaa tagttgaaga 480

ttcggtacca cttactggac gca 503

<210> 257

<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-F6

<400> 257

cacttaccga agcatcttct ccaagaaagc catgactgat atggacagta caaatgtcta 60

cgcnnggnat ctccatcatc gcactcttcg tctgcattcc tcctgccatc atcgttgaag 120

gtcctaaact acttaaccat ggtttcgccg acgcgattgc taaagttgga atgactaaat 180

tcatctctga tctcttctgg gttggntgtt ttaccatctc tacantcagc tggctaccaa 240

taccttggga gagggttgca acgctgaatc angcggttgg naacgttctg aaacgtgtgt 300

tcgtgatngg nttctccatc gttatcctcg ggaacaagat atcgacacaa acaggtatan 360

gaacaagnat aaccaatgct ggagttgcaa tgtnctccat caata 405

<210> 258
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-F7

<400> 258

ctatgacgtc naatgcacgc gtacgtaagc tcggaattcg gctcgagaga agatggtgtc 60

tgggtcaggg atatgcgcga agcgcgttgt cgtcgacggg cgacaccaca tgcttggtcg 120

tctagcttcc aacactgcga aggagttact taacggacag gaagtggttg ttgtccgatg 180

tgaagagatt tgtctctcgg gaggtttggt tcgacaaaag atgaagtaca tgagattcct 240

taggaaacgt atgaacacta agccttctca tggtcctatt cactttcgtg ctccttccaa 300

gatcttctgg cgcactgttc gcgggatgat tccacacaag accaaagcgt ggtgctgctg 360

cacttgcccg cttgaaaggg tttttgaggg aatcccaacc tccttacgac aagattaaag 420

anaatgggtt aatcctgatg ctcctaaggg ttttgagact tcaaantggt cac 473

<210> 259
<211> 325
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-03-Q1-B1-F9

<400> 259

tcgagccgtc gtccgatcgg tgaacacatg taactgtaac gatcgaaatg ctgagattga 60

aaatggtcag ggagttagaa acagtgctgc aactacttga gtttgcccaa gaaaccctaa 120

taagaaacct atttgttgac tattttgact ttgtaccctt cttgatatac ctatcaatca 180

ccattgtcca cgtgtactag tttcgttgta gtaattttca aagtttatcg aagtatgcgt 240

attcgaggat taattaaatc gggaattaca ttttcctgag ttaatttttt ctctttttct 300

tttactaaaa aaaaaaaaaa aaggg 325

<210> 260
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-G1

<400> 260

tggnacgcca gaagagctca anagtcgcgg ncncccgtac gtaagancgg aattcggctc 60

gagctcgagc cgtcgtggag gagatatgca attgctgacg ctaaatccgg cggccatttc 120

caggacgccg ccgcaagcca tagacccttc ctcatcctcg agtcttcttc ttccttttcc 180

tcagattttg agctcccaac gcgctcttgg tcttgtagct aggccttgta atccacttcg 240

acgaggatta tctaggtttt tatcaagtcg acagcttttc cgacgatcca aagttgtcaa 300

ggcagtagca accccagacc ccatcttgga agtaccttta actgaggaaa atgtagaaag 360

cgttttggat gaaatccgac cttaccttat gtctgatggt ggtaatgtgg cattacatga 420

gatcgatgga aatattgtgc gggttaagct gcaaggaac 459

<210> 261
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-G12

<400> 261

ctcgaggaaa aaaaaaattg acaaacaaat ataaaatccc tatgaacaac tctagagaag 60

accagtggtt acaacactat gagcaacaaa atattcaaga gattactccg tgcttcaacg 120

ccattaacat cgcgtcatcg tcgggatctt cccttggaga cggtggtgcc gcggcacatg 180

aagctgctgg aaggagatct agggcttcga ggagagccat accaacaacc ctcctaaacg 240

caaaccctag caatttccga gccctagttc agaaatttac cggacgttct gccggaggtg 300

aatccaaccg cagaaaaggt ccggtgactt tggatttcgg gtctcccact acaatctcca 360

aagaagctat ctttccagtc tcaagcgatn gaagtaata 399

<210> 262
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-G3

<400> 262

gaatcttttg gnacgccaga agagcataga aagtcgcngn ccacncgtac gtaagaacgg 60

aattcggctc gagcacattc ctttactcac tctctctctc tctctaaaaa cagagctcaa 120

caataatgat ccactaaaaa agattctctt ttctcttctt ctccggtgat ttacttactt 180

aacaatcatg gcgtcgtcgg agggattagc aagcgttgat ccttggtcat tccgtcaaaa 240

cttcaacatc gattcgtggc tactctctga ttccttctca cacgacagtg atatactcgc 300

taaagctctt cacagatcca tctccacttc caccgaatca tctcctcttt ctccttcatc 360

tttcttcgac tcttcaaccg ccgccgtcga tttttctcct cctcaaactc tctccaacgt 420

ctctttcggg tcaagattca agaaatcccg gcgctagtgc tcctgggnct cgg 473

<210> 263
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-G6

<400> 263

ctcgagctcg cttctctttc tcagatcccc atccaaatcg ttttataggt agattagata 60

gataaactac ggatatactc gaactctatc catttacggt attgatttgg aaatatggac 120

aagtatgacg ttgtcaagga tctgggagct ggaaatttcg gtgtggctcg ccttctcagg 180

cacaaggaca ccaaagagct tgttgccatg aaatacatcg agagaggtcg caagatagat 240

gagaacgtgg cgagagagat tattaatcac agatcactta aacatcctaa tatcatccgg 300

ttcaaggagg tgatcctgac acctactcat cntgctattg tgatggagta tgcttcctgg 360

angaaanctc ctttgatnga aactgtactg gccggtaaat 400

<210> 264
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-G8

<400> 264

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tccagatcct ttagcagggg aacagacatg gccaacagag gaagaaatgg ctgaggctga 120

caaaaatcag aagcagggca ggctaaagaa gaagactttg ccgcgaggga cttcagaata 180

tcaggctgct tggattgtgg atgaaacaga tgaagaggat tccgataatg gtgattctga 240

tgataatggt atggtattgg atagaggaga ggattccaat caagaaggga ttttattgac 300

caaagaattt tgagggatga cgggaaatcc attgaancct gcgggataat tgatactgaa 360

aactcaagaa tgaatcccga aattggtgga cgaattgaaa gacttgacaa gaagaa 416

<210> 265
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-F8

<400> 265

nttctagctc gttcatagan ntacncgaga cgncccgncc acgcgtacga aanatcggaa 60

ttcggctcga gctcgaactc actactcttc agccgtcgac gccgcatccg ttccatttcc 120

gagaagccgg agtacttcct ccgccttctc ttcctctgcc tcttctcgga gaagatcttc 180

ggatttcact ttcgacgatg attatagcga gctgcttaga gctgcttccg ttaggagttt 240

aggtcataag aatgagattg acatgatnat annnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn ngcgttgcga tgggagcggt tacggttaaa ggcggtttgc ctaagagctc 360

gagtgttggg atgacaatgg ctangattga tgaaagaaag atgaagaaga aggntntgta 420

aagaatcaaa aagaagggat tctggatttc ctaaancctc cggagcaa 468

<210> 266
<211> 361
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-G9

<400> 266

tcgaggggga ctctgctttt cacagttcca gagaatcccg gaatctggaa tcggcaaatt 60

ggagaaggaa tcgaatccta agcattagca gttttaggga taagaggaac tgtgaagatg 120

gtggggactc tgcttttcaa tctttttctt cttgctagtg atgaaaaatt gttgctacat 180

tttcagatgt gaatgttcaa gattctctat ctttttttttt tttttgaact ctttttaact 240

tggagtggtt tcccaaaaaa taagatgcaa aactcatctt tttgttggtt ttctatcttt 300

aatctgtgnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngg 360

g 361

<210> 267
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-H1

<400> 267

tgagntcgcc agaagagctt agaagtcgcn tccacccgta cgtaagancg gaattcggct 60

cgagaatctt tcagtgggaa gagaatggtt tgctcgggcg gtgggtttcc tcaattgcag 120

aagctttcaa tacgggaaat agagtgggaa gagtggatag tagaacaagg ctccatgccc 180

cttcttcata ctctctatat cggggtttgt ccaaacttaa aggagcttcc tgatgggctg 240

cgatttatct attcattaaa aaatttgata gtatcaaaaa gatggaagaa gagattgtcg 300

gaaggaggag aagattatta caaagtccaa cacattcctt ctgttgaatt cgacgactag 360

gaatgctctc agcaatcaca gaagccagga gtctcataag cctctgtttc cacccaaaat 420

cangtccgaa gataattgca aggtaaggaa nctaatcaaa 460

<210> 268
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-H2

<400> 268

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aacttttgca agaagagatt gtggatgaaa ctgatgaata tgttgacgta cataaaagga 120

ttcgagtagc agcagcagcg gctgcttcat caatagcgag agctccttca agccggaagt 180

tgcttgcgca aaagggaact ggaggacaaa ataagcaagg gcagacgaat aaagttcctg 240

gtcaggaaca agataaaatg cttggaacta ttaccgagcc gattcgaaga aacaactgat 300

gttgtgttct tgcttaagga ggcaaaaact ctgttgcggt ataaagaaag aaaacaaaga 360

ataaattata agattcaagt tccttctgta tactttgatt catcacataa attatntata 420

tataaaaata ttaaaaag 438

<210> 269
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-H6

<400> 269

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gctcgagttc agatgctgag atttgggagg ttcttggcaa gtgtcaacta aaagaagtgg 120

ttcaagaaaa agagaacggc ttagattcat tagttgtgga ggatggatca aattggagca 180

tgggacagag acagttgttc tgtttaggca gagcagtttt gagaagaagc agagtattag 240

tcctggacga agccacggca tcgatagata atgcaacaga tttgatactt cagaaaacaa 300

tcaggcgaga atttgcagat tgcactgtca ttacagttgc tcaccgtatc cctaccgtta 360

tggattgtac aatggttctc tccatcagcg acggacggat tgtggagtat gatgagccaa 420

tgaaagttga tgaaggatga gaactccttg ttcgggaaag cc 462

<210> 270
<211> 133
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-B1

<400> 270

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nncggaatnc ggtncaannn caacccgnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnn 133

<210> 271
<211> 365
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-B3

<400> 271

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ttccttcgtc tactattgga aatcatcccc aatcgcgatt gcggtgatat gcaacctttg 120

cgcaggagat ggtatggctg acattgtggg tcggcggttt ggaacagaga agcttcctta 180

caacaaaaac aaatcatttg ctggtagcat tggaatgggc accgccgggt ttctagcatc 240

tgttgcgtat atgtactact ttgcttcatt tggttacatc gaaggatagc gggggaatga 300

tcctccgttc ccccgtcanc cccaaagcat caactcctgt gggatcaatc ccaatnagca 360

acggc 365

<210> 272

<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-B4

<400> 272

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cttacaagnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnncag atctgatttc atagtcaacg agaaccaacc tttacctgat ccggttttgg 180

cttcttctac tcctcagact attaaacgtg gtcgtggtcg acctccaaaa gctaaaccag 240

atgttgttca acctcaacct ctgactaatg gaaaactcac ctgggaacag agtgaattac 300

ctgtctctcg accagaggag atacagatac agccgccaca gttaccgtta cagccacagc 360

agccggttaa gagaccgccg ggtcgtccta gaaaaagatg gaacttcgcc gacggtgaag 420

ccaagct 427

<210> 273
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-B5

<400> 273

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tatcgaatga gctgggtgca ggaaacgcag cgttagccaa attctcagtg atagtcgtct 120

ccataacttc aactcttatc gggatagtgt gcatgattgt tgtcttagcc acaaaagaca 180

gcttcccttа tcttttcact tcaagcgaag ctgtggcagc agaaaccacg agaatagccg 240

tcttgttggg cttcactgtc ctcttgaaca gcctccagcc cgtcttgtca ggggttgccg 300

gttggagcgg ggtggcaggc tctggttgca tacgtgaaca ttgcgtgtta ttacattatc 360

ggactacctg ctggccttgt tcttggatca aactanactc g 401

<210> 274
<211> 224
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-B6

<400> 274

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ctgagtaaaa ctttgtattn gtttgtaatg ttttggtagt ttcatgtgaa tcttgtgaaa 120

ggtgtttgtt aatatttgtg aatcacgtnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnng 224

<210> 275
<211> 525
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-C2

<400> 275

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aangaacgcn ttacgttaag ctcggaattc ggctcgagga aataatcaaa acttaaaaac 120

tatcagaatg ggaacgttct taggacactt tgtgcctggt ctctcacttg ctcttcntgg 180

tctttggcat ctcttcaaca ccataagatc ttactgtctt aaaggccctg aagctttctc 240

tgcaaaattc tggttccctt tccctaaact caaacatctt gagcttatct tgattctctt 300

cttctccttc ctctccatca ctctcctcac cctagatttc cctaatttca acttctcctc 360

tctcaaacca gacaacctan aaaaatggct ccaatggtcc tccaactcaa tanccttggc 420

gtgtttcgct cctcttccgg cgaagctaaa cctttgctca agatttcctc tccggtccaa 480

tcggagttcc ttccggctcc gtcctcgctc aagaactcct ccttc 525

<210> 276
<211> 374
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-C7

<400> 276

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gcggctggtg ttaaattgat agctgttgga gttggaactc ctgacaaggc tcgtatactt 120

gcaactcggt tacctttttcc catggaatgt cnttatgcgg atcctgaacg caaggcatat 180

gatgttcttg gtttatactt cggtttgggc cgcactttct tcaacccanc tagcaccaag 240

gtcttctcaa gatttagcga nattcgagaa gcaacaantn attacaccan anaaagccac 300

tcctgaagac agaancagtg tgttgcanca nggangtacn tttgtgttca gaggcaagaa 360

attantgtac gggc 374

<210> 277
<211> 342
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-D5

<400> 277

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ttttttttg tgatcgggaa ttgaatcttc ttatcatgaa ttatcttctt ggagctttca 120

anccagcatg taatatttca atcacattta nngatgggaa aaaccgtaaa caggtaccca 180

ctaagaaaga taagggacaa atagttatga atccactttt ccagagtcaa gaaactantg 240

ctgggaagat taacattgaa ccatatcaag gaaaaaaagt ggagcataat ggtgtaaaag 300

ttgagcttct tggtcaaatg gaaatgtact ttgacagagg aa 342

<210> 278
<211> 196
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-D6

<400> 278

ggataaagan ggcgaggaag attaccgagg gagcanaagg cgataataat atgggccact 60

cttggttatc ttattacagc tacaggactc attttgtatc tgtttcgttg agtgggggat 120

gatatgcctt gtattcaaga gaagagagac acggttgatt tcaacaaagc ttatattgat 180

aaaaaaanaa naaang 196

<210> 279
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-C6

<400> 279

caaaatccat agcaatggcn acttcgatag ctcnattgtc tcggagagga gtcanttcta 60

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naccgcaatt cacggtgtcg ccgtcgacgg atcntgtgaa atgggactac agaggncaac 180

gacagatcat tcctttggga cagtggcttc cgaacgtagc cgttgatgct tacgtggcac 240

ccaacgttgt gctggcnggt caggtcanag tctgggaagg ctccgtccgt ttggaaaggt 300

gccgttttgc gccggnatnt caacaaaatc actggttgga ntccgctcna aatgtncaag 360

gaaccgtgtg ttgttcatgc cncct 385

<210> 280
<211> 368
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-D7

<400> 280

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cttttgaagt tccanaactc agctcttanc tccagatcag gtgcgtcgcc gcggttctcg 120

gcgaagacca ccggtgcttc ttcatcttgg nacttacctc ggtacgcagg aaagaggcga 180

accgattcaa tcggaatgat tgagagttgc aactgaggat gcttcttctc tttccaccgg 240

tgatgtcgcc gatgattact atgccgttct cggactcctt ccagatgcta cgcatgagga 300

gattaannnn agcttactan aactgtatga aaatcgtgnc agcnanactt nagtggcaat 360

gacccccg 368

<210> 281
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-F1

<400> 281

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tcgcatgtta taaatgggnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn ggtgtagtan cggaagcggt ggatttagga gtagttctaa 180

gcttttcgat tctccggcgt gttcgagatc ggatttgaag aaacgtagcg ggaagagaaa 240

ttcacggtta aacggacttt cgttagagaa attaaggtcn attaaagcat cgtcngtcct 300

tcccggctgg gacaaganca antanccgaa agttgatcga acgaacggga gaanccggcn 360

ggcgccttgg gtttaanctg gttaacttca anggagaatg ttaaccgtcc ggtttgggaa 420

aa 422

<210> 282
<211> 61
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-F10

<400> 282

gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

g 61

<210> 283
<211> 365
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-F12

<400> 283

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atgggaccct caaaccgact gttgctcctg gtactgcctt gagtgcggcg acgccaccgt 120

taaccaccgt gttaccgcct taaccatatt ctccggccag atctccggtc agatcccggc 180

tgaagtcggt gacttgccgt atcttgagac ccttgtcttc cgcaaactct ctaacctcac 240

cggtacaatc caanccanca tcgccaaact caagaacctc cgaatgctca ngctcagctg 300

gacgaatctg acangtcnaa ttcctgactt tatnagtcan ctcangaatc tcgagttctt 360

aaaac 365

<210> 284
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-F3

<400> 284

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gtggtgggaa tctcgtcgac ggnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnaac aataataata ataatcacga acaacccatt ttcaattctt 180

cttcnttctc ttcttcctct aaccccaatc attccgctaa ntctggagag cttattattg 240

aanaagatct cgatttctct ggtctaacgc ttattaacgt tcctaaacgt tatcatttac 300

ctaaggattc tcacaagaan ggggaaactg aattctcacg gggtatggan aanctaacaa 360

ggtacaaatt caaganggtg g 381

<210> 285
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-F4

<400> 285

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actttctact atcgnnattc ctccgtcgcg gcaccaccac cttcgaaccc taaacaccaa 120

ccttcttcct ccgccaaatc atcagctccc ggcggcggat ctggcggctt agctccttca 180

aaatcaacac tctacgtctc caatctcgat ttctccctca ccaattccga catccacact 240

ctattctcca ctttcggcaa ggtcgcgaga gtcactgttc tcaaagattg ccaaactccg 300

caaatctcgt ggggtcncgt tcgtgctcca acgtctctcg tgaaagaccc gctaaaagcg 360

gggcgttcta atgggacgcc aaagnattct taaatgggcc gggnaact 408

<210> 286
<211> 375
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-F7

<400> 286

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atgagaaagc gttaatggag gctgtagcgg ctcagccagt tagtgttggc atctgtggaa 120

gcgagagagc gtttcagcta tattctagtg gaatattctc tggcccgtgt tcgacatcat 180

tggatcatgc tgtgctcata gtaggatatg gttcacagaa tggtgttgat tattggattg 240

tgaaaaactc atggggaaaa agttggggaa atggatgggt ttatgcacat gcagcgttac 300

actgaaaaat cagacggngt ttgcggaatc aacatgcttg cttcatatcc atcaagacac 360

atcaaacccg cctca 375

<210> 287
<211> 359
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-F9

<400> 287

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tttccctaat gtagcagttg gntacgagga tccncgtgtc aacctcatca ntggcgatgg 120

tgttgctttc ttgaanaacg ctgctgaang aacctatgat gcanttattg ttgattcatc 180

tgatccaatc ggtccagcaa aagagctant tgagaaacct ttctttgagt cagtgaatag 240

agctcttcgt cctggtggga gttgtgtgca cacaagctga aagcttgtgg cttcacatgg 300

atatcattga ngacattgtt tctaattgcc gtgacatcgt taaangatct gttaactac 359

<210> 288
<211> 360
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-G11

<400> 288

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ggcagacact ccttcctcag tgccattatt ctctcctcct gccaaagctg ctacgtttgg 120

tcatggtggg aacaaatcat ttggagtatc tattggatca gccttttggc ccaccaatgc 180

agatagtgca gctgaatcct ttgcttcagc gtttaacaat gaatctactg aaaagaaaca 240

aactaatgga aatgtctgta ggctttttgg gtttgagcta gttgaaaatg ttaatgtgga 300

tgaatgtttc tctgctgcct ctgtgtctgg tgcngtcgct gtagattaaa ctgtcccaat 360

<210> 289
<211> 324
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-G7

<400> 289

aaggaattgt ttgttgttaa aatgtttctt acgcgatttg tcgggaggag attcttggcg 60

gctgcatcgg cgcgatcgga gtccactaca gcagcagcag ctgcctcgac gattcggacg 120

ccaacaaatc cactcgaaga gttctttgag ttcgacagaa gccaagacga agataaacct 180

gttgtctatg gtcgaggttg ggaaagcttc agagctgcgt ctcaagtcat gggatgatct 240

tcagaagctg tgggaacgtt cntctcaang agaanaacat gtttgaagga ctcagcgtca 300

gatgccttaa ggctcaanaa catg 324

<210> 290
<211> 387
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-H1

<400> 290

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actccctccg cctcttctca ctcagtctca ctcatcactc tccgatcccg atccggagcc 180

ggaaccttct tccgccgaat gtaaatccga tctcatcact gaatcagatc tcgagcatca 240

atccgattcg aaaactccct cgtctacacc atttgagtac tgggacnaaa gacgagttcg 300

aagggactac cantttgaga tagaagacac ttgaatcctc caattgatta cagaaaaacg 360

ggactcatgc tgattcaaag aacgccn 387

<210> 291
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-H10

<400> 291

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agatctctct catggcgatg tctttctcag gagctgttct cactggtatg gcttcttctt 120

tccacagcgg agccaagcan agcagcttcg gcgctgtcag agtcggccag aaaactcagt 180

tcgtcgtcgt ttctcaacgc aagaagtcgt tgatctacgc cgctaaaggt gacggcaaca 240

tcctcgatga cctcaacgag gccacaaaga aagcttcaga tttcgtgacg gataananaa 300

nngaggcatt ancaagatgg tgagaaagcg aaangactac gttgttgaaa naaacagtga 360

aancgcagat agattgggta a 381

<210> 292
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-H3

<400> 292

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gatcgacaaa agtctctata ccttcttgta acgtggtggt taattaatca tggccgatca 120

aatctccggc gagaagccgg ccggagttaa tagattcgct cttcaatgtg ctatcgtcgc 180

ctccatcgtc tccatcatct ttggttacga tactggtgtt atgagtggag cgatggtgtt 240

taatagaaga agatttgaag acaaacgacg ttcaaataga agttctcact ggaattctca 300

acctttgtgc ccttgtcgga tnattgctcg ccgggaagaa cgtcgggcat aatcgggacg 360

gggttacaca atcgtcctgg gcctcaatac taatcaatgt tang 404

<210> 293
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-H4

<400> 293

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attttcccat tttcttctca gtcgtcatct tcatcatcac tcctccttca ccttcacctt 120

cactctctct tttaccgcca atcattacca ccgattcacc tcctaagctt ccggcgaaaa 180

ctgagcttcc tgtcatcgga agctgtatag attgaagatc cagtttcaaa tttctcgaat 240

catcgttagt ttcccatcga cgttcactct gtaaatcagt gtctgtgaaa caccataacg 300

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gccaagacgt tgtcgaatct cgaccaagaa tctgtcgc 398

<210> 294
<211> 378
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-H5

<400> 294

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ccaaaanaaa aagtaagtgg acctaaccca tcgaatcatg actatatcca ctattctgat 120

attcaaattc gatagagatt aaattgaaac agtanatttt ttttanttca tatttttgta 180

ttaggaaatc cgtcgatatc tcttattgaa tcttcttgtn tctatatatt tcataggaaa 240

tatattgcgt tcctgcctag agaaagagag tatttttgca aagtaataac taaaanggcg 300

ttcaatattt ttttttgatc gagaacataa caagttctac attccccttg gtnttangaa 360

tcaattggaa taaaaata 378

<210> 295
<211> 359
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-027-Q1-B1-H11

<400> 295

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cttgaaacaa atttacaaaa ggacttacct ggattcttgg ctgataaagg caaatttaca 180

gccacccttc aagctgctgg taatttctca gagtgtcgat ctgctgcatt tgccatgttg 240

caggaagaaa aagggaaatg tacttataag cgttgttcta ttggatcaat attcacacct 300

aatcttcaag gaagtttttt ggctacagag aatttcctcc acacatccaa gttctttgg 359

<210> 296
<211> 375
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-H2

<400> 296

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tgtgctgatc acgatctcag gttgctaaca gttccaagtg ccaagaccct tggcgaatgg 180

gctggtctct gcaagattga ttctgagggt aatgccacng aaggttgttg gatgctcatg 240

tcntgttgtc aaggncttcg gcaaggagan aacngcctcc antatcgtta aataancata 300

ttgctnccaa taaaatgcca tgnaacatat ctaaactccn gattcanatg ttttcaacnc 360

caatgccgtt ttccc 375

<210> 297
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-H4

<400> 297

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gattcgaatt tctctttttg tgatcagaaa tggatcgagc tccggtgacc acaggaccgt 120

tggatatgcc gattatgcac gacagtgatc cgatatgact tcgttaagga tattggttct 180

ggtaatttcg gtgttgctcg tcttatgaga gataaactca ctaaagagct tgttgctgtc 240

aagtacatcg aagagaggag acaagattga tgaaaatgtt caaaagggga gattaattaa 300

acaacaaggt cactaaaggg aatccctaaa taattgtcaa gattttaaag aaggtcaatt 360

tttggacgcc cgantcaacc tggggtatca taatgggaat aatgccttcc gggcnggtga 420

aacttttacg 430

<210> 298
<211> 359
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-H9

<400> 298

tgacgaaagc gaagaaggtt tcggaagtaa atatgtcttc cttggggagc agcaaatccc 60

tgagggatga gatggaggta acaaccgccg atgtttttcc ggaggttaac gccgccgctg 120

tgacggaaaa tcttgatcgg aacgagcttg tgcttgctga cggagtcgtg tcggctgagg 180

aaaggaatat tgagccagac aatcgtggag agaggaagat agagagcgag tcgcctccag 240

aggatgatgt ttgcccgatc tgtttcggct cctttacggt tccgtgtcgt ggaaattgtg 300

gtcattggta ntgcggnaat tgcatcttgc agtactggna ctatgctgca atatctagg 359

<210> 299
<211> 360
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-H10

<400> 299

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tcttcctctc ccgctgtcgc caagattgaa tctttttca gttgtggctt caccggataa 120

taaggaattc agtaagagat aagttcatcc tgacaacatg gagaccaaga atgagaattc 180

tgatgtttca cgggcagagg agtttaaaag tcaggccaac gaagctttta aaggtcacaa 240

atactccagt gctattgatc tatatacaaa agctattgaa ctcaacagca acaacgctgt 300

gtattgggca aatcgtgcat ttgctcacac aaaactggga ggaatatggc antgcaatac 360

<210> 300
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-A10

<400> 300

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tcggaattcg gctcgagtgg ctgaggaaat caagaatgtt cctgaacagg aggtgccaan 120

ggtagcaaca gangaatcat cggcagaggt tacagatcgt ggattgttcn atttcttggg 180

aaagangaan gacganacaa aaccagagga gactccgatc gcttcagagt tttcgccaca 240

aggttcatat ttcagagccg gagccagagg ttaaacacga aagtcttctt gaaaagcttc 300

accgaancga cagttcttct agctcctcat tgaggaagaa ggttcagatg gtgagangag 360

gatgaagaag aaangagaat aanaagccaa ctactggaat tttgaggnaa anggaggaag 420

anangnaaaa gggtttatgg naaagt 446

<210> 301
<211> 402
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-A4

<400> 301

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ccactgtttc ggtggttata gctcaagtcc ctccggagaa acaattcaga gtcgtcaacg 120

aaggagaatt cggtgaatac atcactgagt acgacgcaag ttacagattc atcgaatcat 180

caaaccagag cttcttcaca tcaccattcc agctcttgtt ttacaacact acccctagcg 240

cctacatctt agctctccga gtcggactca agcgtgacga gtctaccatg cgttggtatg 300

gggacgcgaa tcgcaacaan cccgtcggag aaaacgctac actctcactc nggcgtaacg 360

ggaacctcgt cctcgctgaa gctggacgga cgagtcaaat gg 402

<210> 302
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-A6

<400> 302

gaggcanaca ttanngttga gaaaaaaaan nangtangaa cgagagagag aaagccatgt 60

ctgcgaaaac aatcctatca tcagtagttt tggtggttct cgtcgccgna tcagcagcgg 120

ntaatatcgg attcgatgag tcaaacccga tccgaatggt ctccgatggt ctccgggagg 180

tagaagaatc tgtttcccag atcttaggtc aatctcgtca cgttctctct ttcgctngct 240

tcactcaccg atatggtaaa aagtatcann acgtggagga gatgaagctt cgattctcga 300

ttttcaangg agaantcttg atttggttca gattcannca anaataaaag ggttatntta 360

caancttcgg tgttaaacca atttgctgaa tttgacattg gcaaga 406

<210> 303
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-028-Q1-B1-A7

<400> 303

gagagagatg tgaagacgag taacgttatg ttggattctg agtttaacgc taaactcgga 60

gattttggtt tagctcggtg gttagaacac aagattgatg aaacagagca tgattcgagt 120

tacgactctg tttcttcctt ccgtaaccac cagttccgag tcgcggattc gactcggatc 180

ggtgggacta tcgggtactt accaccggag agtttccgga aaaaaaccgt tgccaccgct 240

aaaacagatg ttttcagctt tggtgttgtg gttttagagg ttgtctccgg tagacgagcc 300

gttgatcttt cgttctcgga agataaaatc attttacttg attgggttcg gagattatcc 360

gataaccgga aattactcga cgccg 385

<210> 304
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-A8

<400> 304

agaaaagaag cagctttgct tgtanatgan ctcagaagca acttcaactc tggcagaacg 60

aagagctacg agtggcgaat ttctcagctt caaaacattg cnangatgat tgatgagaag 120

gagaaatgca tcaccgaagn tttgtntcaa gatctttcta agcctgagct tgaagctttt 180

ctanctgaga tttcgaatac annatcatcc tgtatgcttg caatcaaaga gttaaagaac 240

tggatggctc cagaaacggt caaaacttct gtgacaacat ttcnctcgtc tgcacaanta 300

gtctcagaac cgcttggagt tggtttgggt aattcagcct ggaaattccc tttccgaatg 360

tcngtcnagn caatcattgg ggctantgca ctgg 394

<210> 305
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-A9

<400> 305

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tccgtgagct ctctgtgctt tgactgcaac catgtcgacn attatgcaga agatcaaaga 120

aattgaagat gagatggcta anacacagaa naataaagct acttctcatc atctgggttt 180

gttaaaggcc aagcttgcta ancttcggag ggaccttctt gcaccgccta ccaanngtgg 240

cggtggtggt gctgganaan gttttgatgt gactaaaagt gggngattct agagttggac 300

tggtcggatt tccttcggtt ggnnaatcta cgctantaaa caaagctgac tgggacattt 360

tccgng 366

<210> 306
<211> 359
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-B11

<400> 306

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aagcaaggtc acagaggaaa gtantgtaaa cnaagtcatt gaatcggtga ngcaacagat 120

caaagatgct aagttacctg acattgaggt tgtgcgtgtt gtttgggatg gtttaatgga 180

tgctgttcan tggtctggaa aaaaccagca gcaaaatgca aattctgttc tgcgccaggt 240

gaaaacatgg gctccacttc tgaacacgtt ctgtaccagc ggaaagctaa atctggaact 300

gatgtacaaa gtccaaatgc actgctatga tgatgcaaag cttatgaana gttttccca 359

<210> 307
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-B12

<400> 307

agctatgang tcacatgcac gcgtacgtaa gctcggaatt cggctcgagg attaagttgc 60

catcgggttc gaagaagatt gtcccaagtg gatgcagggc tatgattgga caagttgctg 120

gaggtggaag aactganaag ccgatgctca aggcaggaaa cgcgtaccac aagtaccgtg 180

tgaagaggaa ctcatggcct aaggttcgtg gtgtggctat gaatccagtg gagcatcctc 240

atggaggagg taaccatcag cacattggtc acgccagtac tgttaagcgt gatgcacctc 300

ctggacagaa ggttggtcnt attgctgcan ggangactgg tcgtctcana ggtcaagctg 360

ctgcttcagc tgccanggca gactagagtt anaagagata aactttgttt ctcttgtttc 420

c 421

<210> 308
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-B3

<400> 308

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agactatcac tctcgaggtt gagagctctg acaccatcga caatgttaan gcaaagattc 120

aggacaagga angcattcct ccggatcagc aaagattaat attcgccggt aaacagctag 180

aanatggccg taccttggcc gattacanca ttcagaaaga atcaaccctt catttggttc 240

tccgtttaag aggtggtatg caaatctttg tcaagactct gactggcaan gaccattact 300

ttgganggtt gagagctncn ganactattg acaacgtcaa agnaaagatt caaggacaag 360

ggaanggaat ccctccggat t 381

<210> 309
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-B4

<400> 309

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atgggaggtt gtttcagcaa tcggattana acagatantg cttccantac atggntaagt 120

tcgaaattct tgagtagaga tgggagcaag ggctcgtcga ccgcttcctt ctcttatatg 180

cctcgaacag aangcgagat cttgcaaaat gctaatctca anaactttag tctcagtgaa 240

ctganatctg caactaggaa tttccggcct gatagtgtgg ntggtgaacg tggatttggt 300

gcgttttcaa aagntggatc gatgantcct cnccncgctc ccttctaaaa ccgggggaac 360

cgggaattgt cantgctgtg aaaaagactt aa 392

<210> 310
<211> 384
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-B8

<400> 310

cttctctgtt gttacagaag tcgacggcga gtagcttcaa ccaanaagaa acaccagtan 60

ctgtctcagc aatggaattt ttccagaaag caaaagctat tcgaatgcgt aacagtcaca 120

acaagtatct aacagcagac gacgatgaag aaaccgtaac tcaaaaccgt aacggatcta 180

ccaaaaacgc tcgatggncc gtcgaaccgg ttcgtgattc tttccatgtt attcgtcnta 240

aaagctgtta cggtaagtan ttaaccgctt ctaacgagcg gtcntgctcg gggctacggg 300

gaanaaagtg nntcagttga aactgagtcg ggttgattcg tccgttgagt gggaaccgcn 360

tanaaaaagg gtctaagatt aagc 384

<210> 311
<211> 379
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-C5

<400> 311

gagggcgcag ctttttcttc gtcttcttca attattctat tccctctgag agattctctn 60

tgcgtttctt agatcgagcg agcgaagcga gagatcatgg aaggtggagc tgctctctac 120

aatcctcgaa ctgtcgaaga agttttcaag gatttcaaag gtcgtcgtac tgccattgtc 180

aaagctctca ccaccgatgt tcaanagttt taccaacaat gtgaccctga gaaggagaat 240

ctttgcttgt atgggttacc gaatgaagaa tgggaagtga atttaccagc tgaagangtg 300

cctcctgagt tancanagcc agctcttggt attaactttg ctaagggatg ggctctctga 360

aaaggaatgg ctttcgcnt 379

<210> 312
<211> 294
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-E3

<400> 312

gaggtggctt caaactgctg tcagaaggtg ggaagcatag atgcaagagc gacaggagag 60

tcaggggget catcntggaa tgactgcgtg tccacttgtt tacaaagcaa cccaacatgt 120

caaaattccg tcnaggtcac ctgagatgct cacagcanaa cagagtcctg atctatgtgt 180

ttggtgatca caaaaanaga ggggttccca gacactanaa catgcaatgc ggttccgaag 240

gtttgtgcga tttctgtaag gnagtcaacg ctgctcaatn naaatcccaa aaaa 294

<210> 313
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-E5

<400> 313

ttccatcatc catagaagat gaaaaaccaa tcactggatt attagatggg aatggagaat 60

atactcttac atatgaagac aatgaaggag acaagatgct tgtaggagat gttccatggc 120

agtaagaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnaaagga gaagtattag attcctagtc acatatttat natatcttaa tcacagtttg 240

attaataaca aacttagttt ggttaagcta ttaagggatt gtgggacttt ttgatcacta 300

aaattgatta tttcttaaat tgtcagaatg gttggtggtc ttcggtgaag aggctgcntg 360

tgattaaaac ttctgagatt tctcagcatt 390

<210> 314
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-E6

<400> 314

atgaagtaag agagaatcca aatctggaca catggatgga ggtaggacgg gattttatca 60

ggttgcagtt cttgaatact gatgggatca gaaccatagg atgtgttctg ggccagagta 120

ttgctctgga ttactatggc cggcaggttg atggtatggt agcagaattt actgagataa 180

accgtcagtt ggagataaca ggaacgttta caatgaaaag gaaaaagctg ttccagttgg 240

ttggaaaggc taatgtgatt ctggctgatg tgattctgaa gcttggtctt tttgagaagt 300

cagatatagc ttggaaggat ccaaatatgg gtcagtatgg gaanttccga aaagatgaat 360

ttgaactgac acagagtttt gcaaaccttg attataagct ca 402

<210> 315
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-E7

<400> 315

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ggttccaaag ccgcctccat caccgatgtg agcgacgaag cggtaggcgt tcaaatcgac 180

gcgccggcta gagatggtga agctaacgca gctcttctcg agtacatgag ctctgtattg 240

ggggtgaaaa gaagacaagt ctctctcggt tcgggatcga agtctcgaga taaagttgtg 300

attgttgagg atatgaccca acagagtgtt tttcaagctt tgtcccaagc atcaaaacct 360

aactaaagtt tccaaacctg taactaacta tatggngaaa ctaa 404

<210> 316
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-E8

<400> 316

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tattagnggc cgtcgtatat gggatgctgg ccgagtcttt tactgcatta ctaagggagt 120

acaatacccg tctgtaccta gacaaaacaa gccaaggcga gtcgacttgt actattcaag 180

ctggtgtatc cgtgcagttg aatcaaaaag aggcgatggt gagatgacat catgtgaggt 240

actactattt caccatgaag atatgggaat accgtgggag attgcaaagc ttggggtgag 300

acanggtatg tggggtgcag tcaagaagat tganccaggc ctaagtncat atcaaaaggc 360

ttaagcaacc ggaacaaggt tatccccgan ttgcataatg 400

<210> 317
<211> 308
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-E2

<400> 317

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aatctaagag caaatgcagc agcccgaaat tctagattcc cacacatgtt aattttgttg 120

cctcagaaac cagccgatcc ttagtttcct atggatgaaa cctagttttg tatagttgtt 180

gactctatct ctctgtaatg tgatcgctag tgatttcttg caaataactt ttgtgtaaac 240

cagtaaagat atttttatgt gaaataataa tcaataggaa aatttcttaa aacaaaaaaa 300

aaaaaang 308

<210> 318
<211> 334
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-E9

<400> 318

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tacggaactt tcttacatgg atggtgtggt agatagtggt gttcttgaga ttgaaggtgg 120

tgattattat tctcatatta actatgcact cacatttgag gaaccaactc tttctctatg 180

gcaagagaat aatgatgtag ttatgtattg attgatttcg tgaagtcata atataacaaa 240

ggctgtttcg taatccgtta acccccaaaa aaagaaggaa taagaggctg tttcattaat 300

ctttaacaaa ttaaaaaaaa aaaaaaaang gcgg 334

<210> 319
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-F1

<400> 319

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caaaagtcgc cggtcatgaa agtagaactt gtgttcatac catcgccggg gcgttggnca 120

tatccgagca acaacggcgt tagcaaagct tctcgttgcc agcgacaacc gcctctccgt 180

cactctcatc ngtcattcct tcacgaagtc tccgacgacg cttcttcctc cgtctacacg 240

aactccgaag acngtctccg ctacatcctc ctccccgccc ganatnaaac tacngatcnc 300

gtaancttan atcgacaagc caggaaacca ccagttagag ccgtcntgtc caaggncccc 360

nggaaatgtt tcaacaagnt taagactcca cgggtaacct ggggattgtc cttaaac 417

<210> 320
<211> 350
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-F4

<400> 320

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ttgtctttag cagagaaatc aggtttctct ctatcgacca tcgagcgtct tggattgctg 120

accaaagcag aggagttcgg cgttttgtct gccgccacaa acccggaaac gcctggaacg 180

ttattcactt tgagcctcgg tttactcctt cttggaccgg tttttgcata tgtggttcct 240

gaagattaca cttgggaagt agtgattcag gttcttgtgg ctctactctc tgttcttggg 300

gggctctgcg gntttgcngc ctcngggttt ggccccaatt ttgcaaaant 350

<210> 321
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-F6

<400> 321

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aactgtcatt atcncggagc aatcgctcgg tatgttgttc attgagtgaa gaaccaaaag 120

accaatgctt gagtcggaga agtcttgttt atgttttagt tgcttcgccg tgtttgttgt 180

taccagcgtt gtcntcanct gngaaagnan taatccaaga gtccttanga tgagagacgg 240

ttactaagaa cagagcacag agggntacag agagagagaa caatgctcct gacgagtntc 300

nnaactttgt ttagaaaatg tgcngggttt tggggttagg ggtatantct ngggaaattt 360

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gatttcccc 429

<210> 322
<211> 372
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-F7

<400> 322

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gatttctacc caagagatcc tgcttctcac accatccaca ttgcatcggt tgcatacaac 120

agccttttcc ttggagagtt catgcaacct gactgggata tgttccatag tctacaccca 180

antgcagagt accatgctgc aacgcgtgca atgggtggat gcgcantcta tgtcagtgat 240

aagccangca acacaanttt gatctattga gggagctggt tcctcctgat gggtcanttc 300

ntccnggctn agctcccggg taaggctaac ccgtgactgg cttaatcccc gattcaacca 360

nagatgggat ca 372

<210> 323
<211> 380

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-F9

<400> 323

gagtatatca aacccttct ctttgctttc tcacactgaa atcaaactcc tttggtaatt 60

aaagatggag aagaatggtc acacggaaag tgaacttcaa actcaaatgg ttggaaatga 120

gagactacct caagtaacgt ggcaacggaa gttgaacagc aaagtgaaga acccttctga 180

gttcaagatg agtataagag atgttcttca tctgtttcct ctaggctata gattgtggcg 240

ttacactaaa gaagaggcaa aaaaaggaag attttcgatg tacgatatct tcaaaaagcg 300

ccatgtaaga ngcgaccatg gtgtcccatt aggtggaatt ggtggaggaa gcatcngaag 360

gagtttacaa aggtgaattc 380

<210> 324
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-G1

<400> 324

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ggctgagctg atccatggcc gatgggcgat ggcagcggtt cttgggatct tcgtcggcca 120

ggcctggagc ggtgtggcat ggtttgaagc tggagcccag ccagacgcga tcgctccctt 180

ctcgttcggg tcgcttcttg gaacccaatt gcttctcatg ggttgggtgg agagcaaacg 240

atgggtcgat ttcttcaacc cggattctca atcggttgag tgggcaacgc catggtcgaa 300

gaccgccgag aatttcgcga actataccgg cgatnaagga taacccggtg ggaaaatcct 360

cnattcgttg ggtcccgccg gggaaaaanc gcgacggtgt tatgancccg ga 412

<210> 325
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-027-Q1-B1-G12

<400> 325

gaggtagatt cattcctttt acgtatatgt tcttcacgcg atgaaatggg ttttttggat 60

gaccggaaat tacaaagctc atgctgattc tcattacgat cctcacgctc taccggagat 120

aaccgggatt aattacagag atattgtagc tgagaatgtt tctatggctg gaaggttaga 180

gggaatctct ggagatcctt ttactgggat ttgtatttcg aatgcaacga tttctatggc 240

ggctaagcat aagaaagcga tttggatgtg tagtgatgtt gaaggagtta cgagtggtgt 300

tgatcctaag ccttgtgatt tgcttgatgg acaaagaatc agagacgacg aaagaagaag 360

atgattgacg ggtggatgtn a 381

<210> 326
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-G6

<400> 326

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aggttggctg gagtaacgct tgttgctcca gtggtgaact attggtggaa gaactttcca 120

tcagagatct caaccgaagc ttttaaccaa caagggagaa atgaccaatg ggcggttcgt 180

gttgcacact atgctccttg gcttactcat tggtggaact cccagagctg gttccctgga 240

tcaagtgttg tggctcgcaa tctcggtatg ttgtccaaag caagacaaag agatcatgtt 300

taagctccgg tgctgcaaag gagccaacat taaggacaaa ttaaggaaca agggacacac 360

gagacattgc aaccgtnaca ttaattgttg gnttttggaa 400

<210> 327
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-G8

<400> 327

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agggatcccg agaccggcga tgtggggttt gtgggccgtc gctagttagt agattcagag 120

aagaacttga gttccatggt cttcaaggta aagtgtcaat tagcccatgt tctcacatag 180

gtggtcacaa atacgctggg aatgttatca tctaccgatc aaacatcaac agggaagtca 240

caggacactg gtatgggtat gtgaccccag aagatgtacc tattcttttg gagcagcaca 300

tcaacaaagg cgagattgta gaccggctat ggaggggtga aatgggtcca tcagaaagaa 360

gttcaganna aactcaagaa gggcaattta acctaatngn aaaatccaat ccgttaaagt 420

naatnggaaa atgatcaaga atcatcggtc anaacgccga tgttcccgt 469

<210> 328
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-H1

<400> 328

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aggtgagatc gtacggaaaa atggaggctt ggggatgatt atagcgaatg gtgtgtttga 120

cggtgaaggt ttagtagctg attgccacgt gttaccggcg acatctgttg gtgcttctgg 180

aggagatgag attcgtaggt atatctctga atcatccaaa tctcgttcat cgaaacatcc 240

aacggctacg attgttttca aaggtacccg acttgggatt cgacctgcac cggttgttgc 300

atctttctcc tgctcgtggt cctaatccaa nagacgccgg gagantccta aancgggatg 360

taatcgcanc tgggtttgaa taatccnaac tggcttgggc cttgaaccgg attgggtcca 420

at 422

<210> 329
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-B11

<400> 329

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cgacaagctt agacaagaaa aaaccatctc cggtttcaag aaaatcacca aagcaaaaga 120

agaagacgac ttcgacgaat aaacccatca aagttcgtta catctcaaac cccatgagag 180

ttcaaacttg tgcttctaag ttcagagagc tcgttcaaga actcacaggc caagacgccg 240

tcgatcttca accggagccc atctattccc cttcctccga cgaccacaac ctttctccac 300

cggcggagaa tcttgcgcca cgtgttcttc atcaggagcc gttcggtgag agagacagtg 360

attgttatga gccgttgaat gcgggaagac atgtttttac ctgatnagat gt 412

<210> 330
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-B2

<400> 330

cattttgtaa caatantaca attatanatt aaaactctcc gacgatgcct caggcaccga 60

tgccagagtt ctctagntcg gtgaagctca ngtacgtgaa acttggttac caatatttgg 120

ttaaccattt cttgagtttt cttttgatcc cgatcatggc nattgtcgcc gttgagcttc 180

ttcggatggg tcctgaagag atccttaatg tttggaattc actccagttt gacctagttc 240

angttctatg ttcttccttc nttgtcatct tcatcncnac tgtttacntc atgtccaagc 300

cacgcaccat ctaactccgt tgactattct tgttacaaag ccaactgtca cgtgtcgtgt 360

ccccttcgca actttcatgg gaaaatctcg tttgattctc aagggaaang cctaaaagcg 420

tttagntcc 429

<210> 331
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-B3

<400> 331

nccctcgggg aattccaatt ccacattttc aagaaataag gaggcaaaaa tgttcatata 60

tgaattggaa ttatttgttt tcttattagg cctatcctga agccaaagga aatgagatcg 120

gaattcctcg gggaattcca attccacatt ttcaagaaat aaggaggcaa aaatgttcat 180

atatgaattg gaattatttg ttttcttatt angcctatcc tgaagccaaa ggaaatgaga 240

tcggaattcc tcggggaatt ccaattccac attttcanga aataaggagg gcnaaaatgt 300

tcaaatatga attggaatta nttgtttccc antaaggcta nccctgaaan ccanaaggaa 360

atganaatcg ggaatttccc cgggggtacc gagctccgaa ttccctaana gtggagtcct 420

aantaaaatt cgttaatcan gtcaaaanct ggtttcccgg ggttaaaa 468

<210> 332
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-B7

<400> 332

gagaagagtt tgtggctgct gaaattcttc aaacccaact gatggtgatg ctgannnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

naacaacaac aaaacttcac acacgtggtg agagagcaca caaaggctca agctttttca 180

aacccttgtt gaaattcgag ctcttttggt gtttctcttt ttttttgttg gtatcaattt 240

ggtgtttctc ttggtcttgt tgaggtactg aatcagcttc ttcttcttct ccgatcttaa 300

tcgattccaa gtttccttca caagcttggg acgaattgac atccaantnc tccaattcaa 360

ttcccgtaaa gttgnttttt tttcntcctg gtgccttgca aataaaaggg attcctccga 420

aggtgataat caaacnaaaa gccttatct 449

<210> 333
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-B10

<400> 333

tcataacaag ttctatctca agttcaaaaa catccgagct tgaaaanaat ctgccgtcaa 60

catcaatagc ggcaatagat gaaacannga agngaaagaa acacagatct agcaaagaag 120

atnaatacaa tgcattgttt gatggttgga ctcctccttc catgtgtatt gctgatgcat 180

cttcaaatga caatggtgat tattggntat ttgggaacaa gacgcaagag gtgcttaagc 240

ccaaagcagc agtcaaagtt gattgatgac acgatgatga naccgggaga ttcatccttg 300

ggctaagagc tcaantttg tctnaaagtt tnggattaat cnttaaccnt atactgtccc 360

cgttcnaatg ccccgantcc ttttggttcn aaacctttaa acgtaacttg gtacaactgg 420

tttgacngg 429

<210> 334
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-B8

<400> 334

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actactacca aggcaccaat caccatgacc atgatgatca ttacagtgtt cttaacagtg 120

attgcagcgg ttctcgcaat ccttgtcaag aattctcaaa ccggttctgg catcttcgca 180

ccgcctgaaa tctccggttc gcgtgatgtt ttcccgtcgg cgaaagtggt taacttaacc 240

ggagcctctg gtcctgagag tatagctttc gatccagcag gtgaaggtcc gtacgttggt 300

gtctcagatg gtcgtatctt gaaatggcgc ggtgaaccgc ttggatggtc agatttcgct 360

cacacatccg tccaacaagc angagtgtgc tcgcccattt gcancaagag ttggagcaag 420

tnttgtggaa ggcaattagg g 441

<210> 335
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-C1

<400> 335

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ctacacgcct gggatctacg ctactttaca ggtgtaatat tcttctcctt aatctttaca 120

ccattcaggt ttaccaatta ctagcgctcc aagtgtctcg tttctttcaa ccaggctgtt 180

acattactga tcatgtatgc gccagacgca gatctgagga aaaagacatt tgaggcactg 240

aagagggttc tttctgatat cccagctcct cataggtttg acgttttaag agcccttgtc 300

acaaattccc ggtctccttc aatgacaagc aatccttctg ggtctagtta aagacagcat 360

gagcaaaagc aatttgcaag atacagattg tgccgctgtt gatacgcatg ttaatgaact 420

aatgggattt gncctaaagg cctccanaaa gggaaggtcc tccaatcccn ttccgg 476

<210> 336
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-C10

<400> 336

gttgacagta atagtgggat tgagattggt cgcactataa aaaagtttcc cttgttgact 60

ccaagggagt atgtattagc gtggaaattg tgggagggga aggataagtt ttactgtttc 120

atcaaggaat gtgatcacaa tatggtgccg caacagagga agtatgtacg tgtaagttat 180

ttcagatctg gttggcgaat taggaaagtt cctggtagga acgcttgtga gatacacatg 240

gttcaccagg aggatgctgg attaaatgtt gaagatggca aagcttgctt tctcaagagg 300

catatggagt tacgtttgta agatggaaaa tgcactcgca aagtacattg caaccaagtc 360

atcganccca aaggcccaca ttaaccgctg ttagcctaaa tgaaaaagat ccatc 415

<210> 337
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-C11

<400> 337

gggattaaga aggttacgat atcaaatccc ggcgtcggaa tcggtaaagg aagcggagga 60

tgnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnntcgctat cgtcctccct tttatcttcg tcaggttcgc gtttctcgtc 180

ctcgaatctg cctccgtttg cgattcacca ctcgattgca tgggactcag acttttccgt 240

gggggcgaca catctctgaa aattggggaa gagttgacac gggctctaag tggaagagac 300

gacagatnat caggacgtta atgggaagag gaacnaangg atnattggag tcattcgacg 360

aaccttgtta aaggagatga cntaaaacgc cgtgacaata agggcgtttg cntccgtg 418

<210> 338
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-C12

<400> 338

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tggattatgt ggtggattca acantttcat cattaagaaa gcagaggcaa gaatcaaaga 120

gcttaaaggt ctaggtcttg aatacacagt cattagcgtg ggcaagaagg gaaattctta 180

tttcctccgt cgcccgtaca tccccgtcga caaataccta gaagccggaa ctttacctac 240

ggctaaagaa gctcaagctg tggctggatg atgtcttctc tcctgtttat aagtgaagaa 300

atcgacaaag tcgagctcct tgtacacaaa gtttgtcctc cttgggtcaa atcagaancc 360

cgtgattcac aacgctactg gctttatcac ctaaaaggga gana 404

<210> 339
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-C3

<400> 339

agaaaaaaaa tcagaacaac tcttatcttc ttcacgagac tgactaaaca atcatagatt 60

tttccgtttt ttgggtttcg tctggtgtta ctctctcctt ctgagttatg gtgaaataat 120

ggcagcagct gaagcaagag cagtgtggca aagaacagtt aatcgttgct ttgtccaaga 180

agacgctaaa agagctccca agttaactta ttgccaatca tcttcatcct caactgcttc 240

ttcaactaag caagtggaag tttctggttc ttctcctcga gtttctgttg aaccacggga 300

ctcaatcatc cttggngcag gtttcaaggc ctccttcctc cgaaaacccg aaatttccct 360

gattctggtt nccccacaaa caccaanact ngtgggagtc aatcctcaac atcaagtttt 420

aanggggaat aaanaancaa cccanttgga gggatgaggg tta 463

<210> 340
<211> 535
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-D1

<400> 340

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gaaatncggt ccaaaattcc ttaactcnaa cctcaataac aanccccntt tnangggttc 120

cttccggaat cnantnggga aaatgggatc ctttttggtc aaaacctgaa tccggccaac 180

aagggacatc ccgacaaggc ttggtgatta agattctccg acgctatcct cgatgccttg 240

ccttgaacaa gaaccctgag aagcaaaagt ttgcntgtga agacttgtac caaagactaa 300

catggtcatg ggttttggag aaatcaccac caaggctaac gttgattacg agcagattgt 360

tcgtaaaaca tgccgtgaga ntggattcct ctctgctgac gttgggccaa atgctgacaa 420

ntgcaaaggt cctgggttaa caattgagca acaaagtcct gacantgcac aaaggggttc 480

aangggcaat ctcaacaaag aaacccagaa ggaaggtttg gancctggtg aacaa 535

<210> 341
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-D12

<400> 341

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agttgaactt gatgcagctc ttggaggccg agctgtccaa tatcgtgaaa ttcaaggtca 120

tgaatctgac aaattcttgt cttacttcaa gccttgcatt ataccactag agggtggtgt 180

tgcgtctgga tttaaaaaac cggaggagga ggagtttgaa acccggctgt atacctgcaa 240

aggaaaacgt gctgtccact tgaagcaggt tccttttgca cgctcatctc tgaatcatga 300

tgatgtgttt atccttggga caccaaggaa aagatttatc agtttaatgg tgcaaattca 360

aatatccaag gagagaacta aagcgttggt antcattcaa tatttgaaag acaanttcat 420

gaaggaa 427

<210> 342
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-D4

<400> 342

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ttgttcctta ctcttattac ttcctaaatc cgatcgaaac aactgttggg ttagtttcta 120

atttccaaga atggcgcaag atcacgacga gacggagaat aaaaacctttg ccgacgttgt 180

cggtggcgat gatgtcggcg aaattgtcaa cggaggaaca aagaatggct atcgtaaacc 240

ggactctgtg gagaaggaag atgatgagga tttgaagagt ctctattcct tgatttgtct 300

cacgatcggt tcgattctgt ttccagattc gaaaaccggt gatgcgtctt cgtttcttga 360

acgtgtaana aactccgtcg ctgaaaatgg ggctaagcct ccaaaaacnt ctgaaanaac 420

aagacccaaa atccttcccn g 441

<210> 343
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-D5

<400> 343

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tatgaggggt gaagatccac ggacaacctt gatgataana aacatcccaa ataagtatac 120

ccggaatatg ctcttagctg ccatcgacga gaaaaacagt ggaacttatg attttcttta 180

tttgcctatt gatttcaaga ataaatgtaa tgtggggtat gcatttatca atatggtgtc 240

tcctaaattc accattgcat tgtacgaggc ctttaatgga aagaaatggg ataagttcaa 300

cagcgagaaa gttgcttcat tggcttatgc acgaatccaa ngtaaaagct gcgcctaatg 360

ctcantttca annaccaagt ttgatgaatt aagatang 398

<210> 344
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-E6

<400> 344

ctcgcgcgtc ttggttgtaa acaccgaccc ttctatcgtg tagttgtcgc cgatgaaaaa 60

tcgcgcaggg acggtaaaca aatcgaggtg ttaggctttt atgatccact ccaaggcaaa 120

gaagatgcgg atagagtgag cctcaaattc gacagaatca agtactggtt atctgttgga 180

gctcaaccaa cagacacagt ggaaagcatg cttttcaggg ccggtttgat accaccaaag 240

cctatgggta ntggtcggtt cgaaaaaatg gggcagaaat ctacgagcca acatggttta 300

anccaattac aggtaaatcc ttgaactaag aattgttgaa tccnttgaag caaagaaaag 360

aaccctttg gtgttcggtg ttgaaaaggg agtttaatg 399

<210> 345
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-E7

<400> 345

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cgaggagatg agcatgagtt tatgaactta agagaatggg atcgaagagc tcgattaatc 120

cgcgaaaacc cgagttcaag aagattctca gcttcataca ttggaagctt ccgagaagat 180

caccacaagt cttcttttag aacaacaaac ttcaacaaca tctctagtac tgcctcttct 240

cctggctaca ctctcaanga agagattgac ccatcaacat attccttcac caatgcactc 300

aaagcattac aagcaaagac aatgtacaat aacagggaat gggttagcac aagaaagggt 360

ttgcattgaa ttcgaagtgg acgaagcaga gnaatatatc tngcaatcca attgtcngga 420

gaagttacca aa 432

<210> 346
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-E8

<400> 346

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ttcgccattt tggaaaccga tggtcgagat ttgttgatag gaaagctatg tttgatccca 120

tggctatact ttcaccgggt caaaagattt tcaataggtc tctttgaccc ctcatatttt 180

tacttttttt acnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnntcccaag aaaaaaatca gctggttttt tataaaaggt 300

ggcctacgaa gtcatgtcca aattatgaaa taacaaaatc acaagaaaaa cgtccttgtt 360

tgggttaaaa aaaaaanaaa aaaaaggcgg ccgcccgact aatgagctcc gtcgaacccg 420

gga 423

<210> 347
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-F1

<400> 347

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gagatagagg gagagagaag acatcataat tcccaaacaa aagactttgg gtataaaatt 120

gggtttattg actttgtgaa acctacccag aaaatctacc aactgtctcg aantctctct 180

cctctttctt gaaacgggaa agagggaggg aagaacaata agaagatgaa gaagattcta 240

naaagatcaa tgggaagggt tcagggacat ggcaagggct tggtgcccgt tgggaatngc 300

aaaatgggtt cggtcctcct cctaaccgna aatttaaccc ataaatttag atttcccctt 360

aaaaacaatg ggtccctcct caagtccttg ggggtgtncc tc 402

<210> 348
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-E5

<400> 348

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ggacgtcaag ttgtgagttt aatcggagat ttattccggc gattacacgg ctctaagttg 120

gtgaagagct tgaatctctg tagtatcaac gagagtaaag attcgatttc aatggagatc 180

aataaatcat tcactgacat ggaaggtgtt cagctttcca gcaaagtcgg ttgcgagaat 240

ccaagaatct tggatactct gagctttata tccggaacta atggttcaac caanaactga 300

ttctccggaa ccggngggtt cnggcgcctt taaaaagggc tttgtttacc gaaccaacgg 360

gaaacaaccg ttggctgtta aattgcttgg cgggaaa 397

<210> 349
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-F12

<400> 349

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gaaaggagga agacgtatcg gattcgactt agactacgac gagaaagaca gcagttacaa 120

cagaatcaag agccttgtaa cagaggagct gaaacaatac ttcagacccg agttcctaaa 180

caggctagac gagatgattg tgttcagaca gctaacaaag ctggaagtga aagaaattgc 240

tgacatactg ttgaaggaag tgttcgagag gttgaagaag aaagagattg agcttcaggt 300

gaccgaaaga ttcaaagaga gagtagtaga cgaaggttat aacccgagct atggagcaag 360

accgttgaga agagccatca tgaggcttta gaggatagta tggcanagaa gatgcntgcg 420

agagagatta aaggaag 437

<210> 350
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-G10

<400> 350

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tggctactaa gtgtggtaga tataaagaag gttttgattt cagtgctgag agagtaagaa 120

agagtattga cgagagcttg gagaggcttc agcttgatta tgttgacata cttcattgcc 180

atgacattga gttcgggtct cttgatcaga ttgtgagtga aacaattcct gctcttcaga 240

aactgaaaca agaggggaag acccggttca ttggtatcac tggtcttccg ttagatattt 300

tcacttatgt tcttgatcga gtgcctccag ggactgtcga tgtgatattg tcatactgtc 360

attacggcgt taatgattcg acgttgctgg atttactanc ttacttgaag aacaaaagtg 420

tnggttgtta taagtt 436

<210> 351
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-G4

<400> 351

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gggttatgga ctatggccat cgatggttat aatctcagaa atagtccaaa cattcatatt 120

ggcaagattt ctgttactac tacgttaaaa gtgttttcgg tggccagctt gttctaaggc 180

ttccatctgg ggttgtgtaa gttataaagg aaaaaagata agacacatta tgacgaaatt 240

tgttacacga agatagatct cagcttggtg taatcngata gcctctgggt acccnaaatt 300

tacncccnaa ggcaaattcc aaatncaata accggngtgg aaaattttgg ggnggtnnac 360

nacaaaaaca atnccctggg ntaataatga caaganttttt ttc 403

<210> 352
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-H12

<400> 352

ataaaaaata ttttgctctt ctttctatat atttatnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnact cattttctcc gcagagaaaa tacaatccat ggcttctact 120

tttaggctct ctattagctt cctcactctc atcctcttct ctctgtgggt agtggaggca 180

cacacgtcta gaaagttgat atcaatcaag gaaaaagaag gtcaagatat tagtcatttg 240

ctcaaagatg gtgaatttga tgacccttcg ttgtacatgt atttcacact caatgatctc 300

aaactaggga accaaaattg ctgattactt cacaaaaacg attctcaaaa gcctcctcca 360

attnctcaca agacaacaaa gccgatttca atcctttcac taaagtcaaa gcntgacttc 420

cctc 424

<210> 353
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-H3

<400> 353

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tctgtttaat tctacggggc aacaatgcta ctagcaagag catcagcaca attgattcac 120

ttgcctcaag cacttgggag aaggttgcac cagaaaagac gttgatcaca cctgtgcagt 180

gtaaatcact gtggaggcaa tttaagaacg agacagaata taccgttaca caggccattt 240

ctgcacagga anctaaccga cggaataaca actgggctgc aactccaatg ggcaatccct 300

ggccctggnt ggtccttgga ttaaattnaa ttaagaaccc ccttaagaaa atccccaaag 360

ggccctaaat tccaattgtc cngganaccc tttttancca aaanccttgt nggggtccaa 420

ttaaatnttc aaggaaa 437

<210> 354
<211> 363
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-H5

<400> 354

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ataaaggtcc atttacaggc caaggccata aaggcctata tgaaattcta acaacatcat 120

ggcatgctca attatctctt aacctagcta tgttaggctc tttaaccatt attgtagctc 180

accatatgta ttccatgccc ccttatccat atctagctac tgactatgct acacaactgt 240

cattgttcac acatcacatg tggattggtg gatttctcat aatttggtgc tgctgccatg 300

gaagcaattt tatgggnagn agactatnga ttcaaactaa anccgataat aacnaattta 360

tta 363

<210> 355
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-A12

<400> 355

agtgttgact ctgatatcga aattgatgat gtgtctgatt ctgagcagga agatggggaa 60

gatgatgagt atgaccagct gccaccattt aagcctcttc gaaaaaccca acttgcaaag 120

ctctcaaatg aacagagaaa ggcatatttc gaggagtatg attaccgtgt aaagctcctg 180

cagaagaagc aatggagaga ggaattaaag aggatgaaag aaatgaagaa aaacgggaag 240

aagctgggtg aaagtgagtt tggttatccg ggaagaagaa gatgattcaa gaaaacgggg 300

ctccagctgc agtgccagtt ccattacccc gatatgggtt tgccaccttc atttgataat 360

gataactcaa cttancgata ccgatatcct ggaacccact tcacaactcc taaccaagcc 420

aattgttggg ata 433

<210> 356

<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-024-Q1-B1-A9

<400> 356

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atggatcatc taagaatgaa tggtgcatac tggggactca ccactctcga cttacttgac 120

aagctcggct gtgtttctga agaggaagtc atttcatggc tcatgacttg ccagcatgaa 180

tctggtggct ttgccggtaa cactggacac gatccacata tcctatatac actcagtgct 240

gtacaaatct tggccctatt tgacaaaatc aacattcttg acattgggaa agtgtcaagt 300

tatgttgcta agttgcagaa tgaagatgga tccttctcag gagatatgtg gggagaaata 360

gatacgaggt tttcgtacat aactatttgc tgtcctccca atattgaaat gtcctga 417

<210> 357
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-B4

<400> 357

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cgaagaacca cgcttttgct tttttcccaa gacttaatct aaaaagcgag atttccttct 120

ttcgattctt ttttctcaat ctggttttca gtcttcggat tcaatggcgt ctggatcttc 180

gggtcgggtc aactcaggat ccaaaggttt cgattttggc tccgatgata tcctttgctc 240

atatgatgac tacaccaaac aaagaactcc ctctaaatgg gcctcaatcc cgattctggc 300

gattgcctgg cttncaaatc caacaaaggg aattccaata aaacaaggat gggaaagggc 360

ctcgggtttc cctaaaaagc tcctaaaatc caacaagagg gaatccttga gccaagacat 420

taatgacant ggc 433

<210> 358
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-B6

<400> 358

gaaacaaaat aataagatgg ttagggcaaa tatagtgagc atggttctgt tgatgcatgc 60

catcgttggg tttccttttc atgcgagggg attaagtatg acttactaca tgatgagctg 120

tcctttcgct gaacagattg tnaagaacag tgttaacaat gctcttcaag cngatcccac 180

tttagccgct ggncttatcc gtatgttgtt ccacgactgt ttcatcgatg gatgtgatgc 240

gtcaattctg ctagattcaa cgagagacaa cactgcggaa aaggattcgc ctgcgaatct 300

gaatctacgt ggntacgaga tnatcgatga tgcaaangag aaaatcgaaa atanatgtcc 360

aagagttgta acatgcgcaa atttanttgc ca 392

<210> 359
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-C12

<400> 359

gagcttcttt tttttggctc atcgtcaaaa caaaagtgtt ggcgatggaa cgaactactg 60

taatactgtt cgtcttcttc ttgctctctg tagcaatgtg ttctcttcac tctttttctt 120

ccgtagcaat ttcattcaga actcaaaagt acgtaaatac ctctctcgtt catcgcttat 180

ctcctatagg atatcgtaat tatcctctac cgtgggcagt gacgtcaatt gacgaaatcc 240

ctcctaatgc tgttcgccgg aaaatagacc ggaattggag aggtgggttc agtctcggcg 300

tagatttagg tttatctcga accgggaatc gctattagta aaaggctaac accgttaaaa 360

cctctcacgg tttgaaatcc ganaagggaa aaaactccga agaaccaagg cttttaanaa 420

aattgctg 428

<210> 360
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-023-Q1-B1-C2

<400> 360

gagctcacag tttcttcgtt ggggatcgaa atcgtgccat ttgagttagc ctctgtatag 60

atcgatggct agcctgagaa gagctctgct cgtagcaggg aagacgaaga tcaacctaga 120

aaactgccat ttcatcaccg gaatcaacta caacggtctc agcgtgaagc aactacaaga 180

gctccgtgga atcctccgtg aaaacacaaa cacgaagctc ctcgtcgcca agaacacttt 240

agtctacaaa gcctttggaa nggaaccaaa tgggaatccc ctgaaaccaa tgttatnaan 300

gggaataaac gccttgggta antccttnaa tcctgaaaga tanacctgct ggcttgaaan 360

actttcaaca attttcaaga aagagaagaa gctccaagat aacaatttaa gnggtg 416

<210> 361
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-B12

<400> 361

ctgtaaaccc ccacacagtt attggccgtc ggattcaatg gaaggattag ctatcaagag 60

catctcgacc gtcggttttc tgttctattc caggtctcgg cggcgattcc caccgaaaac 120

ctccaagtga cggtttcctc aagctgcctg cgtcgtctat tccggcggac agccgaaaat 180

tagtagcgaa ttctacttcc tttcatccaa atctcagccg ttaacgtctc tgctcaagct 240

tccctcaccg ctgattttcn cgccctttca gaaactatac tgaaagaggg gaagaaataa 300

cggaaaagag aaaacaagan aaacaatcgt gttggcacaa gagttcgata tgcagatgcg 360

acagacanca aacttcttca acaaaagggn tgtgtcgntt ggattactgg tcccaattgg 420

tcaaggaaaa gc 432

<210> 362
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-C5

<400> 362

aaaatatttc agagatgaga gaagcatctc ctttggccga ccaaatttct tctantttg 60

ctgtcccaat atataatcgg gttttatgtc cagcatctcc gacttccgga gttgtgatgg 120

ctggccctct gtttggcatc atcnggcttc tanaaggagc gttggccagc ttcgtcgttt 180

tttctagtcg tccggtgtat gaggttcgta tcacgtttaa tattcgctgt ttggttatta 240

taaatccagt agatccggtt angtctctac ttttgttcaa nttatttcna ggattaatag 300

ttctgctccg ggtgggcctc caacaagggn tatgtgntga taagccttgn tggatcnaga 360

tgttcctttc ngannttagg tgtcaangac agttcctgcg cctaaantta nccnggntaa 420

aaagcccaag taacaatt 438

<210> 363
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-023-Q1-B1-C7

<400> 363

agaaaaaaca ccatgtcttc tctgatctct tttatcttcc ttttcctttt ctcattcctc 60

actagcttca aagcttccgc tcaagatcct ttttacttaa atcattattg tccaaatacg 120

acaacttact caagattcag cacttactcc accaatctca gaacccttt gtcctctttt 180

gcttcccgca acgcctctta ctccaccgga ttccagaacg tcacggtggg acaaaccccc 240

gacctggtca ccggactttt cctctgccgc ggagacctct cgccggaagt ttgcagtaac 300

tgcgttgcct tctccgttga cgaagcgtta actaggtgtc caagtcagag agaagctgtg 360

ttctattacg aaggagtgta tactcagata ctcctgacaa gaatattcta atcgacgggc 420

aattacaaac g 431

<210> 364
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-C9

<400> 364

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ctttggttta gccgttgctg ctgaacaaag aagaagcact gcaagggttg tgcaggacac 120

tgaggtgcaa tataactact gtgtgtatga ctcggacaga gctacagggt atggagttgg 180

agccttttg ttctcagtgg ctaagtcaaa tccttatcat gctcgttagc cgttgcttct 240

gttgtggaaa gcctctcaag cctggcggtt cacgcgctct tgccctcatt ctcttcattg 300

ttagctggat gttcttcttg atancggnga tatgtctatt agcctggatc gtagaaatgc 360

ataccacaca aagtacagga caatgttcan ggncaatcct cctgattgtc aaactctacg 420

taa 423

<210> 365
<211> 370
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-D11

<400> 365

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ccggagctgg aattcaagcc gaccttaaag tctgcgcagc tcgtggtgtg tattgcgctt 120

ccgtcataac cgcagtcact gctcagaaca ctcgaggagt tcaatctgtt catcttcttc 180

ctccggaatt tatctctgaa cagctcaaat ccgtcctctc tgacttcgaa ttcgacgtcg 240

tgaagactgg gatgcttcct tctactgaga tcgttgaggt tcttcttcaa aatctatcag 300

attttccant tcgtgctttg gttgttgatc ctgtgatggt atctactagt ggtcacgttt 360

tgggctgggt 370

<210> 366
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-D12

<400> 366

acgagtctct gggttcttct ccttgccctc gtttcaattc agttaaatgg ttcgtttgga 60

tctgaatcaa gtaaagtagc ttatgtcaca cttttgtatg gagatgagtt cttattagga 120

gttagggtat tgggtaaatc gattcgtgac actggatcca ctaaggatat ggtcgctttg 180

gtttctgatg gtgtctcaga ctactctaag aagttactca aggctgatgg atggaaagta 240

gagaagatta gtttactggc aaatccaaat caagttcatc cgactangtt ctgggggtgt 300

ttatacaaag cttaaagatc tttaacatga ctgattataa gaaagttgtg taccttgagg 360

ctgatacaat tggtggtaaa gacaattgan g 391

<210> 367
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-D5

<400> 367

nattaggtga gccatagaag agctangacg tcgcatgcac gcgtacgtaa gctcggaatt 60

cggctcgagc ccgagtgtta agatcgagac tccggagagt ttcgcggcgg tggattctgt 120

tccggtcaag aaggagaaga cgagtcctgt ttcggcggcg gtgacggcgg cgaagggaaa 180

gcattataga ggagtgagac aaaggccgtg ggggaaattt gcggcggaga ttagagaccc 240

ggcgaagaac ggagctaggg tttggttagg aacgtttgag acggcggagg acgcggcgtt 300

ggcttacgac agagctgctt tcaggatgcg tggttcccgc gctttgttga attttccgtt 360

gagagttaat tcaggagaac ccgacccggt tcgaatcaag tccaagagat cttctttttc 420

ttcttctaac gagaacggan ctccgaanaa naggagaacg gtggccgccg gtggtgggaa 480

tggataaggg attga 495

<210> 368
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-D7

<400> 368

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agaatggaat atcatttatg acaaactaga caaatgtgtt gagagtggag caaaagttgt 120

tctttctcga ttggctattg gtgatctagc tactcagtat tttgccgatc gtgatatttt 180

ctgtgctggt cgtgttgctg aggaagatct taaccgtgtg gctgctgcag ctggaggaac 240

agttcagaca agtgttaaca gcataataga tgaggttctt ggaacttgtg agatttttga 300

ggaaaaacaa gttggtgggg agagatttaa tatattcagt ggttgccctt caggacgaac 360

agcaactatt gttctccgtg gtggagctga tcagttcatc gaagaanctg accggagtta 420

catg 424

<210> 369
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-D8

<400> 369

gcaaatctta aacgttttac tttgtgctgc actactcaac ctcaatggcc gcctcaacaa 60

tggctctctc ctcccctgcc ttcgccggta aggccgtcaa gctttccccc gcggcatcng 120

aantccttgg aagcngccgt gtgacaatga ggaagactgt tgcnaancca aagggncnat 180

caggcanncc atggtacgga tctgaccgtg tcangtactt gggtcgattc tctggngaat 240

caccgagcta tcttaccgga gaagttcccc gganaactat gggatggtaa aaccggaggg 300

acttcaanct aaccncaaga cattccgcaa tggaaccgtn gaactaaaaa tttaccaaca 360

agcaaggttg ggncaatgct ccggngcccc taaggttgcg tccttcctgg acctttgggc 420

n 421

<210> 370
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-E1

<400> 370

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ttcggtccag tcgccgaaga tgatgccgtc gccaccgtgc gcgaggcttt ccgtctcggt 180

atcaacttct tcgacacctc cccgtattat ggaggaacac tgtctgagaa aatgcttggt 240

aagggactaa aggctttgca agtccctaga agtgactaca ttgtggctac taagtgtggt 300

agatataaag aaaggttttg attcagtgct gaagaaaagt aagaaanaag tattgaccaa 360

naacctggga gaaaggcttc aaccttgaat taaggtttga caataacttc aaattgncaa 420

tgacaattga attccgggtc cnc 443

<210> 371
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-E12

<400> 371

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cttcgtcgtt ctcagtcaca tctccagctg ctgctgcttc cgtctatgca gtcactcaaa 120

cctcctcgca cttcccaatc caaaaccgct ctcgcagagt ttctttccgt ctctctgcta 180

agcccaagct tcgctttctc tccaagccta gtcgcagtag ctaccctgtg gtgaaagcac 240

aatctaacaa ggttagtact ggtgcatcat caaatgctgc caaagttgat ggggccatca 300

tcagctgaag gaaaggagaa aaactcattg aanggagtcg tctgcttctt ctcctgaatt 360

aactacagaa gagtctantt ctgaagttcc ttacccaagt aacaactccn tgtcaagcct 420

tgtgggat 428

<210> 372
<211> 155
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-B7

<400> 372

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atgatttgta attgtcaaca taatgatggg gtcattttgc nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnn 155

<210> 373
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-021-Q1-B1-C10

<400> 373

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gcaacataag ctcgaaatgc atattgttga ctgcagagtt tgagccaaag atctcggatt 120

tcggtctagc taggctgatg aacccaattg atacccattt aagcacattc gtcaatggag 180

aatttgggga tttcggttat gttgctcccg agtattcaag aaccatggtt gcaactccaa 240

aaggagatgt ctacagcttc ggtgttgtgc ttctagaagc tagtaacggg ccaaaaagca 300

acgagtgtaa caaaagtatc tgaaagaaaa agctgaggaa gaaaacttca agggtaacct 360

cgtggaatgg attacaaagc tatcaagtga atcaaaactg caggaagcaa tcgacaggtc 420

ttacttggga acggtgt 437

<210> 374
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-C2

<400> 374

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cctcgttaca caatacagta ctataaaact tgtaaatgaa cangaattac ccacattatc 120

gggtgactaa tgttcgttcc atcggaaaac aaaaacacaa caaactcaaa accaaaatct 180

ccataaacat atatagagct attaattatc atattaaact ctcacacact cttattataa 240

aatgttttga ctcctgatat tagaccaact gcaaaaacta aactaatcac tccaagattt 300

aacantcaaa tcattattan gnttactata atctaanata ttactagtta aantaaacct 360

ttttgtaatg aggatattgg tgatgatctg gtcaaccggt gaaccattcc ntacg 415

<210> 375
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-C9

<400> 375

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ttggttcacn ctcagagcat tttggccatt tgggccacac aagttatttt gatgggaacc 120

gttganggct ananagtcgc aggaaatggg ccattgggag aggccgagga cttgctttac 180

cccggtggca ncttcnaccc attgggtttg gctaccgacc cagangcatt cgctgagttn 240

aaggtnanng agctcanaaa cggaagattg gcnatgttct ctatgtttgg attcttcgtt 300

cantccatcg tcactggtaa gggaccgata taaaaccttg ctgaccattt ggccgatcca 360

gttaacaaca acgcatgggc cttccgccaa caactttgtt cccggaaaat tagccaantt 420

ttaacctggt antttgcctc antccnttgc cttcctgagt gttgacaagg agaaaagaag 480

aacttgttta anatg 495

<210> 376
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-021-Q1-B1-B6

<400> 376

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tccaaaactc gagtcggttc tctacttctg ccgtcaaatg accaatgctg cattgataac 120

cattgctagg aaccgtccca acatgactcg cttccgtttg tgcatcattg agccaaaagc 180

cccagactat ctgactctag agccactgga tattggattt ggagccatag tagagcactg 240

caaggatctc cgtcgcctct ctctatctgg cctcttgacc gacaaggttt ttgaatacat 300

tgggacatat gccaagaaga tggaaatgct ctcaatggca tttgcaggag acagtgactt 360

aagcat 366

<210> 377
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-D2

<400> 377

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tcaatctcac cgaactctaa atctatctcc aagcctccgt ttctggtacc ggtgacctca 120

attattcacc gcccgatgat ctccaccgga ggaatcgctg tttccccccg tagagttttc 180

aaagtccgag ccacagatac gggagagata ggatcagctc tattggcggc ggaggaagca 240

attgaagacg tggaagagac ggagcggcta aagagatcgc tcgtggattc gttgtacgga 300

acagatcgag gtttaagcgc atcgagcgaa accaagagct gaaatcggga gattctaatc 360

acaacaagct cgaagtctaa agaaccctac tccanctccg acgggaagct ctttttccct 420

tctcaacggg 430

<210> 378
<211> 361
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-D3

<400> 378

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cattgcctgc gtcttgcttc ttcaagagct tctgcaacaa caaagataat tagagatgca 120

gttgaagcat acaaccgtga gaggagctca cagaaggtga aacggcatca tactttggct 180

aagtctgaag ttttgggacc tattgtagtt gtgtaggaag aagacataaa taaaacattt 240

gctgtggtcc gtcgattgta aataaagatt ttagttgtag aaaatcttaa caagcaacac 300

taagctataa aaacgtcgat atgatnaaag aaaaanaaac nggnnngaaa nnaaaaaaag 360

g 361

<210> 379
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-D9

<400> 379

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cctgtcggag tttgtctcag gcatggctgt tgcacngtaa gtttcatctc tctctatcga 120

tctctgaact ttcacagctt cttatttcag aaatcgaaac cgtagttgaa attgaattga 180

ttacggttat ttaaattgaa attggttgca ctccggttta cgggaaccaa tcaatatgat 240

gaatgtggag atnaattact gaaaatataa ttgtggtgtt tttgttaaaa agaaacacta 300

attaagggga ctaaaaaata aaatttttaa attttgnttt tcccaactca agtttttttg 360

gnttaacttg taaggtgagt tcctcanttg gtttganact gacttgc 407

<210> 380
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-E1

<400> 380

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ttcaaggcag aggagtttgc taagaanggt tctgggagga gtgataagat agaagatgtg 120

gaattaagcg aggaagaatt gaatatgtat ttggatttgc acccattctc taatgcctct 180

ccgtacactg ttgtggagac aatgtcactt gcaaaggccc ttattctctt ccgtgaggtt 240

ggcataangc acttactggt tanaccaaaa acctccaata agacctccag tggtaagtat 300

atgacacggc atgaacttca tgccggaaca tatactaagg cctgcaatcc cctccggttt 360

ctcggaanca agttgaaaaa ggnttccgga ntccggctgg cctttcgtcc tna 413

<210> 381
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-E3

<400> 381

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agagcctttc gcttctcctc ttctgttcat ataacaactg aataatgtcg atctccgccc 120

aaaatccgga tatttccggc gatagacaat ccggccaaga tgttcgtact cagaacgtga 180

tggcttgtca agctgtttct aatattgtta agacctcact tggtcccgtc ggcctcgaca 240

agatgttggt ggatgatatt ggtgatgtga ctattacaaa tgatggtgct actattctta 300

ggatgttgga ggtcgagcac cctgctgcta aggttcttgt cgagttagct gaacttcaag 360

atagagaagt cggtgatggg actacatctg ttgttan 397

<210> 382
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-E6

<400> 382

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acgcccgccg ccgcgtcgga gccttccaag gctgctgctc annnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnncaccggt 180

gccgccgcaa ccaccatgcc agcggaatcc aatccttacg tttctccttc ccctgcccca 240

aggaatacga tggattcggt gaaggatacg ttagggaaat gggggaaaat ggctgccgac 300

gccaccaaga aggcggagga tctcgccgga aatttttggc aagcacttga aaacaggccc 360

aagtgtagca natgctgctg tttcacgaaa ttgctcaagg ggacaaaaat actgcagan 419

<210> 383
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-F1

<400> 383

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aganatgtga natctcttct taatccatct gtctcngata ancggaaaat cattatctcc 120

ttcaaagttc agctcaatca aagcctccgt ttcattttcc cgcanaacgc taactcgaat 180

tcganactct tcatctcccg ccgatcactc anncgccanc gccgtggaag cgatcacgag 240

tcgatccaaa acctncttga aatctcgtct ccgtggagga gaaactctct atggnctctt 300

tttactctcg ttctcgccga cattagncga gatcgctgct cacgccggtt acgattacgt 360

cntcgttgat aaggaacatg gtcnc 385

<210> 384
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-F2

<400> 384

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tgcctgagct gttcgatgag caaaaggatg atgtctctaa ggagcaaata ttgcgtgtga 120

ttttcttgga tcctgagcgc tccaaccctg cattggaaaa actgaagcgt caattagcag 180

aagcggatgc agcggtggag gcacgaaaga aacctccaga ggaaacaggt ccaaagatga 240

ttggagaagg gcttgtgatc gatgaatgga aggagcgtag agagagatat cttgcacagc 300

aacaaggcga aggagctgac tctgtctgag agactaaaag agttttctca ggacaaaaac 360

aagtgcgctt gtgaagatna agaaaaaagg g 391

<210> 385
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-021-Q1-B1-F5

<400> 385

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gatgcagggt gttggacaca atgatgagaa agtacttgta cttgcagcaa ccaatacacc 120

ctatgctctt gatcaggcta tccggcgacg ttttgacaag cgtatctata ttcctctccc 180

agaggccaag gctcggcagc acatgttcaa agtccacttg ggagatacac ctcataattt 240

aactgaacct gattttgaat atttaggcca aaagacagaa gggttttctg gttcagatgt 300

gtctgtttgt gtaaaagatg ttctgtttga acctgttcgt aaaacacaag atgcaatgtt 360

ctttttcaag tctcctgatg gtacatggat gccatgtg 398

<210> 386
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-F9

<400> 386

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tacctcagaa tcctaagcaa cagcgcgcgg gattctacgg atcctgcttc tgatccatct 120

atactacaat cagtgaagaa gctgcatggg ttctgtaaaa tggagaaatc agatgatctt 180

gtggctagaa tttatccaca attcaataaa gtcttccatc gttcggttgc ttcactaatc 240

tcaagtccga agtcaggggc gtccaaaagg gcttcctcct tggctaagcc aattccttca 300

atttttttcct ggatttgggg gataatgggt tcctgcacga atcctgaacc caaagttttg 360

aaggacaatt ccttccggct catgtcttaa gccgttgaag ttctcaagat gccgccngtg 420

g 421

<210> 387
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-G1

<400> 387

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nnnnnnnnnn nnnnnnnaga aaaaaacaaa ttgcacaccg gtggtctcag tagacagagt 120

tttcctaaag gattcgtgtt tggaaccgcc acgtcagctt atcaagtcga aggcgagact 180

catcaagacg gtcgtggccc aagcatttgg gatgccttcg tcaagattcc tgggaagatc 240

gccaagaatg ccacggctga gataacagtg gaccagtatc accgttacaa ggaanatgtg 300

gatttgatga agaaactgaa cttcgatgct tacaagattt tccatttcaa ggtccaagat 360

attccctgag ggaaagtggt aaagtcaact ggaaaaggat tgccttaata aa 412

<210> 388
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-G3

<400> 388

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gagaatcctt agcgttaaat actcaatccc tgatgacata cggatatcac ctgaatgctg 120

tcatcttatt tcaagaatct tcgtggctga tcccgctacc agaataagca taccagagat 180

caaaacccat agttggttct tgaagaatct ccctgctgat ctaatgaacg agagcaacac 240

aggaagccag ttccaggagc ctgaacaacc aatgcaaagc cttgacacaa tcatgcaaat 300

catctctgaa gccacaattc ccgctgttcg aaaccgttgc ctagacgatt tcatgactga 360

caatcttgat cttgacgatg acatggatga ctttgactct gaatctgaaa tcgacattga 420

cagtagcgga gagatagttt acgctcccta ataaaaagnc ttttttaaca 470

<210> 389
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-G9

<400> 389

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tgcggttgnc atcaccgana gacatggngg antcgagatc ccctcctgta acgaataagg 180

tggagcatgt gatggatatg ttcggtgacg ttagggttga caattacaac tggctccgtg 240

acgattctcg caccaatccc gacatgcttt catatcttcg tgaagaaant cagtacactg 300

atttcgtcat gtctgggacc aagcantttg acgaatcatc tgtntgctga aanaagaggg 360

aggatcaaag aanatgatat atctgcagc 389

<210> 390
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-H1

<400> 390

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ccgagaatgg ttttatcggt gaagcaaaca ctctctccga aaatcggact tttccgacga 120

aacccttcat cctcactagg aagatctcct gtttctctct cgtttccatc gacggagctt 180

ccaaaacgca ccgttttagc cgtgtcaaag ccgcttcatc tctcttcttc tctgagagct 240

aagtctccgg tagtgagatg tgaagcttat gaagctgacc cgattcagag cccatcccga 300

ttgggtgatg aangctggng gcgggggggaa aacgaaaatc agaaggcggg taaagaaaat 360

tgaagattng ggatttacnt tggcaacttg 390

<210> 391
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-H11

<400> 391

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cggctcgagc tttcttcttc aaaagttcga aacttttttt tttccggcaa tggagggact 120

agttccggta cagagacttc caattaaagt ggcttcacct tctctgtatc ggtgtaacaa 180

ttctgtctca atcagacgtt caatttcagg ttttgccatg gacaggaaga taaactttag 240

ggctccgtcg caattctcga tccgagctca acagtcggat ttgaaggaaa gcttagctgt 300

gtcttcttca tcagtagagg ataaaggaaa tgttcttaga atcaaggaat gggaagtaga 360

gatgtatcag gaggaattag ctattagtca aggtattagg ataaggagaa aaccaccaag 420

taaggctcct ttgggatact ctggaccatt tgagttgaga ttgcataaca atgatgcctg 480

aatc 484

<210> 392
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-G8

<400> 392

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ttcggctcga gcaatagcat tgactggtct ttagaccaca cacctcgtgt tcttatcccg 120

gtagccaacg ggtctgaagc ggttgaactg gtctcaattg cagatgttct tagaagagcc 180

aaagtagatg tcacggtttc atcagttgaa cgatctttgc ggattacggc attccaaggc 240

accaaaatta tcactgacaa attgattggt gaagctgctg agtcatcata tgatctaatc 300

attcttccgg gaggccatac tggctcagaa cgtctgcaga agtccaaaat tctcaagaaa 360

ctgctcaggg aacaacatga atctgggcga atatatggga gctaccaact cttcatcnac 420

cgttttgcat aaacatgggn ttacncaagg ngaagaaaaa gaacngttta c 471

<210> 393
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-020-Q1-B1-H12

<400> 393

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agacccggcg gtggcggcgg caaaagcagg cttttcgtcc ctcgctttag ctcctcttcc 120

tcttttgatc ttaccaatgg cggctccgaa gaaacccctt ttcccgtcaa gagagaaaat 180

tctggtgaac gtgtgaggtt ttcccgagaa gagatacttc agcacagaga gtctgttcaa 240

gtctctgatg aaattcttag acgctgtaag gaaatcgcag ttgagctttt tggcgaagag 300

cagagttggg ggaatcatgc agccgagagt aaaataacaa atcatactca gcatcgtcat 360

accgagactg ataaccgtga ctggcataat ccttcccaaa a 401

<210> 394
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-H3

<400> 394

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aaaaacttct ctctgagatc agatctctta cgattctcag ctcaatctta tcttttcctt 120

tgttgtgctg cttttcactc tcttctgcgc gacgaatttg gccttgtttt ttgtttgttt 180

gtcgtatccg acgcggaggt attgagaaac cgtggcttaa gacggaggaa gaaagatggg 240

aanctaacgg ggattgagaa acttgacgaa atcccgnatc agggaaagag aagttaataa 300

nggagacatc ataagcaatg aagcttgtgg gataatcaag tgtaacctcc nacgccntgg 360

ttaaacaana tcaaagctcc cggttcaaaa ttgtgtgggc ancttgtgaa aaagaatttg 420

attaagccac aagaaant 438

<210> 395
<211> 244
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-020-Q1-B1-H8

<400> 395

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ctggtgattc cgacatcatc aagacacttc ctggagatca gtgattctga ttttgatgat 120

tttgccatgt tgttctctat gcttgattat gctttgtgtt cttcaaagac ttaatgttag 180

atttctttgg tttcccgact tcctcttaat ggttataatt aattactaca aaaaaaaaaa 240

aaaa 244

<210> 396
<211> 408

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-H9

<400> 396

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ggttgctcaa gtctgagaac ttttcctctg atttcaacta gaatcgaatg tctctatctg 180

caaaacaccg ccattgaaga agttccctgc tgcattgagg atttcacgag gctcactgta 240

cttatgatgt attgttgcca gaggttgaaa accatctccc caaacatttt cagacttaca 300

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actgtggtag cgacaatgga agaccacgtt tcttgtgtac cattaacc 408

<210> 397
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-A10

<400> 397

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actgaacgac cctttacttt ccttanggat tctgatgacg tcactccatc ttcttcttct 240

tcttccgtca gggctccgtt tcgaagacta tgattagggc tgctcaagac agtgtttggt 300

gatggaattg gaagctatan aaggggggtc ctaaagttta aaagaanatg tttgggtctc 360

caacctggtg ggtgggcggg tgggaatcan gtcgtgtgtt tgcaaggacg gggaatgtcn 420

tttgagaaaa gcctgggngt ttaat 445

<210> 398
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-A11

<400> 398

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atcagcacag ctgcaaactt gaggatattc ttcttgaaac tgatcggatt ttacgaccgg 180

aagggattgt gattttccgg gatgaggttg atgttttgaa tgatgtgagg aagatcgttg 240

atggaatgag atgggatact aagttaatgg atcatgaaga cggtcctctc gtgccggaga 300

aaaatcttgt cgccacnaag cagtattggg tacccgcgac natggaaaca antctccgtt 360

ngccttcnaa tatgannaag aatanacaaa aacaagaaac tcctcaaggt tactaaacct 420

tgaagg 426

<210> 399
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-A5

<400> 399

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tgttgttgtt ggatcctctc cgtcctgaag ttcttccatt cgttgaacga ctaaagcanc 120

agtttcctca gaggaatggg aatgaaaatg cantgcaagc ttctgcgaat gtacaatctc 180

ctcttgatcc agaagctgca gagggtttgc agagtgagct tccttttgag tttcaggtcc 240

tggagattgc acttgaggtc gtctgctcat ttgttgataa aagtgtggct gctcttgaga 300

cagaagcttg gnctgtcctt gatgaactca ctaagaatgt cagcactgag attacttttc 360

aaacttcgta atattcaaga ttctcagtgc tgacattctt gaa 403

<210> 400
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-021-Q1-B1-A6

<400> 400

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cgctctgacc ttgcgtctca ggtttttcaa gagatgaatt accagggttg ttatccggac 180

agagacagtt acaggatttt gatgaagggg ttttgtctag aggggaaact tgaggaagcc 240

actcacctgt tgtattcaat gttctggagg atctcacaga aaggttcagg tgaggacatt 300

gtggtttata gaattctatt ggatgcatta tgtgatgctg gtgaggttga tgatgctatt 360

gaaattcttg gtaaaatctt tgagaaaagg gttaaagggt nccgaaacga tgttac 416

<210> 401
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-A7

<400> 401

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caacagaaca gcaagatgat gatcatccag ttgcattctt cagacgagta ctactcgaat 120

ttgttgcttc gaaaaagaaa aaaaactctt gagaatgtgt ggaaaagaga ggtgattgtt 180

gttcatagat caatactatg tatcttttgt atcatcatct cttgaatctt ggtactgatc 240

ttatctgaat agtatgaatt tgcatctcat aagaccatat gaacaagagt gagttatgta 300

ttcanaaaca ggaatatttc cagacacaag aagcatcata aagaagcaga aaaattcaag 360

ggagagctac acaaagacaa cgcgcaaaag aaatagactc cgaaaagc 408

<210> 402
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-021-Q1-B1-B1

<400> 402

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ggtcaagaaa catcaagatc aatagacaca atggaagctc atcatcataa ctacaatgag 180

acaacaccat ggactcatca aagaaaacca tcaatttcaa tgccaacttc accaaatgtt 240

ctcatgatct ccgacccgac aacatctttg tcttccgaaa accacaagaa cagtgggtcg 300

actggcaaat ccgtcaagtt tctctctcag ccgatgacca aagtctcatc tctctacata 360

gaaagcggta atggtgatga tgatcgtcgt caaagccatg ataatc 406

<210> 403
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-021-Q1-B1-B4

<400> 403

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tggacaacat gctgtccttg taacaaaaca aggagaaagt ttttcttggg gagaggaatc 180

tgaaggtagg cttggccatg gtgtggattc caatgttcaa catccaaagc tcattgatgc 240

cctcaatacc acaaatattg agcttgtagc atgtggtgaa taccatagtt gtgcaagtta 300

ctctatcggg ggatttgtat acctggggta aaggagattt tgggattctg ggacatggaa 360

atgaatcagt cactggggtc cccaaa 386

<210> 404
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-021-Q1-B1-B5

<400> 404

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ggccgtccgg tttgtcaacc ggcttcagcc cgacatccat atgcctcttg tgatgtggtt 120

tgtcggttac tttcccggaa tcttctggct cctttagcag aattgtccgg tgtcgccgtc 180

ctccatcggt tggttcctct accaacggtg gttggctctt gtctagcttc tccgtcgtcc 240

ctctccggcg gtttaggcta gcttttggcc ggatttcttt tccggttttg ttttatgttc 300

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attccttgaa cctcctttgt ttaaagggct caatttgtt 399

<210> 405
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-D11

<400> 405

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atccctgcga aatttcttca cattttgagc tcaaaagcct cgatttctcc canatgtcnt 180

agtttcgctt cttcttcttc ttccacaatt cggaggaagc ctctaacnct aagtatcttc 240

aggatcttca gacgcggagg aggtgtcaga tacggaggac gaatggctga agaaactacc 300

agagaagaac aanccactgt attcgcatag cttaccttgt atcgaagcgt ggctgaggaa 360

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tg 422

<210> 406
<211> 523
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-D4

<400> 406

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aattcggctc gagataatat ataagctcgc cgtataattt tcttgccggg aataatctcc 120

gatcatcgtc ggaaatttcc gaattgttgt aaaagaagtc caatttaggc tttggatcct 180

cagtttaatt tatctgggac ttttggttgc tgaaatctct ttcgggtttt gtcctaatcc 240

tcattanttt gggtttcgtg agtctcgttt tataagaaca tgggacaaaa gagattgttg 300

ttcttgctgg cagtttttac ttttcttgtt tcatcttcat atggtanagt tctcaagttg 360

aagagcgatg atgatcgacc tgtttacaac catacgcttg ccgtcacgcn tgtggagtat 420

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tgcnaatggg gtttgacaaa agganttcca aattataaaa ggt 523

<210> 407
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-D6

<400> 407

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agcctcgagg gaaaggttat tggggctttc tgtttcttgc aaatcccgag ccctgagctg 180

cagcaagctt tagcagtcca acggaggcag gacacagagt gtttcacgaa ggcaaaagag 240

ttggcttata tttgtcaggt gataaagaat cctttgagcg gtatgccgtt tcgcaaactc 300

attgttggga ggccacagac ttgaacgang accaagaagc agttacttga aacaagtgtt 360

tccttgccaa naaacaantt tcaaaggatt ctccgggaan atggattttt taaagc 416

<210> 408
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-E1

<400> 408

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ttctcaaagc tcgcggaagg cactgacata acctcggcgg cgcctggcgt ttctctccag 180

aaagctcgca gctgggacga aggtgtttcc tccaaattct ccaccacgcc attgtcagat 240

atcttcaagg ggaagaaagt cgtcatcttt ggtcttcctg gggcttacac gggagtttgt 300

tcacancagc atgtgcctaa ctacaagagc cacaattgat aattttaaag ccaaanggaa 360

ttgantcctg tcancctggt gtcccngtta aaggatccct ttgcnatcaa atggntgggg 420

caaaaaaaan cttggtgcca aaagatgcaa attgag 456

<210> 409
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-E12

<400> 409

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atttgccaat gccttatgtt cttggatgaa ccacaangcg ttgcaagcat attggagaag 120

cttcttcgtt cagagaacaa agatgatgct ttattggctt tccaaatctc tttcgatctt 180

gtacagaatg agcaccaggc attcctcatg agtgttagag atcgccttcc agcgcccaag 240

acccgtcctg tagaagcaat tcaagctgtt gaaacctcta ctgctcacaa tgagaacact 300

gcanggggat gttcagatgg cggatganac tccatctcag acaattgtgc atgaaacaga 360

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<210> 410
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-C6

<400> 410

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ccagcaacta gccctgctcc acagcttggc ggggaagggc agttgtacgg tgctcagcag 180

tatcagtatc ctaactattt tccaaacagt ggaccgtatg cttcatctgt ggctacacct 240

acccagccgg gattctctct gcaaaacaaa cctgctggtg tgaagacact acctgcggat 300

agcaataatg ttgcttcngc tgctggtatc acaaaaggaa ntatggntna nctccattga 360

acccancnna caagccaacc cttaaaaccc aagttaattg aagggaangg ttccccaaaa 420

ggagtttggt gccgg 435

<210> 411
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-E4

<400> 411

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cgatcccaag acatttcact acttcaagat cgaaggagct gatagtttca tgacaaaata 120

taacggtgga tcatcgacga cggagagtgc gtgtggggac aagtgtacga gagattgcaa 180

atgtttaggg tttttctaca atagaaagag ttcgaggtgt tggttgggct acgagctcaa 240

gacattgact agaaccggag attcttccct ggttgcttat gtcaaagctc ctaatgcaaa 300

caaaaagtca actccttgag gnctgaaagt catatatata tatgaaaatt aatgtgttgt 360

gtgtttaana agggtccttt tgggtaccct ttttaaaatt aaatggggtn cggatcccaa 420

aa 422

<210> 412
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-E5

<400> 412

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ttttccgatt ccaaatcttt ttgcttattt agtcttcttc aagaactcga tttctttcgc 120

gtttatgtcg acgangatga anagacaggg ctgcanctca gattccggtg atctacggng 180

gcagcccagt cgtctannaa nangatcccg gcgttaaaaa ncgttccggc gactccggcg 240

gcgaataact ggaatacggn tatanctctc ctctcgccgt tagctctttc tcccgaatca 300

tcaccggtng accaannanc ggntgacaaa aatcagtcga cggcgggtgg cggatgaaaa 360

aacgccngtn ttcaagggat gggaacatcc gctgcgccnt ttaattacga gnccatcgaa 420

<210> 413
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-020-Q1-B1-E9

<400> 413

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agcaattcaa tgagtaattc aagatctgtt gttgttgttc gtgcttgtgt ttctatggat 120

ggatctcaaa ctctgagtca taacaaaaat ggatctattc ctgaggttaa atccattaac 180

ggtcacacgg gacaaaagca aggacctttg tctacggtcg gaaactcgac aaatataaag 240

tggcatgaat gttctgttga gaaagttgat agacagagat tgcttgatca gaaaggatgt 300

gtgatttggg tcaccggtct taagtggttc agggaagagt actttggctt gtgctttgaa 360

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<210> 414
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-F1

<400> 414

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agatctcccg agtcagccct gcaaccgcct ccgtcgaccc gctcattgtc ccactctcgt 120

tctttgattt acagtggctt aaactcaacc ctaccgagca agtcttcttt tacaaactca 180

ccgaatcatc atcatctcgc gacgttttct actcctccat cctccccaag ctcgaagcga 240

tctctttcac tcatcctcac tcactttcgc ctattcacgg gtcaccttaa gtgggattca 300

caagattcaa agccgcattt agttggtctc tcaaggagac acactctctc tcaaaatggc 360

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aagttacgcc ctctaataac ccgaagctaa cn 452

<210> 415
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-F10

<400> 415

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gaanacngnn gcataanagg attaccgtcg ctcacaacag ctcgtccctc cttcaaaatt 120

gtcgccagtg gcgtcaagaa gatcaagacc gacaagccct tcggaattaa cggcagcatg 180

gacttgaggg acggcgtcga cgcctccggc agaaagggca anggatacgg tgtttacaag 240

tacgtccaca agtatggagc taacgtcnat ggatacagtc ctatttanaa cgagaacgag 300

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actctcnnng gaattcctgg ccggaagtga tctccctttg ta 402

<210> 416
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-F11

<400> 416

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aaagaatact tctgctcagg tgattctgga tctcatggcg gttggaaagg ccataaagaa 120

agttcccgtg gtggttggaa actgcatang ctttgcagtg aataggacat tctttcctta 180

ttcacaagct gcacatatgt tggccaatct aggtgttgac ttgttcagaa ttgacagcgt 240

tattacctct ttcggcttgc cantgggccc tttccanctt ggtgatttgg ctggacacgg 300

gattggatta ncagttgggc cgatatatgc caangtctat ggtgaccgca tgttcaagat 360

ctccaatgac agagcttctt cttaagancg ggcgaaaatg g 401

<210> 417
<211> 432
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-F6

<400> 417

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cgtgttcttg acggccatgc tggcgacaga aaccggcgta gtcggaataa gtactttgtt 120

taaagtagca acttcaaagg gactcaatct ttacgctttc ctcggctatt cttatcttct 180

tgcttctctc cttcttcttc cttctctgtt cttcaccgac aggtcaagat cacttcctcc 240

actaagtttg tcaatacttt ctaaaatagg acttcttgga ttgctaggat caatgtatgt 300

gatnacagga tacataggca tcgaatacag cagcccaacc ttancctctg gcaattanca 360

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ttttccaatt aa 432

<210> 418
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-F8

<400> 418

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ccaagaagaa actcgacgaa gatgaaccat cacaaagctt cgagagcgtc gctctcatca 120

tcggcgttac tggaatcgtc ggaaacagct tggcggagat tctccctcnt tccgacacac 180

ccggtggtcn aanggaaagt ctacggcgtc gctcgtcgtc ctcgtcctac ctggaacgcc 240

gatcatccga tcgattacat ccagtgcgat gtctccgacg cngaagacac aagatcaaag 300

ctttcccctt naaccgatgt cacacatgtc ttctacgtca cctggaccaa tcgtgaatcg 360

gaaannnaaa aactgtgang caaatgggtc aatnccnccn taaagttccc caangngnat 420

ttcccataag gcgcaaaatn ccccaanatn tttgttccca aaanagggga a 471

<210> 419
<211> 448
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-G3

<400> 419

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tcagcccgaa ccgtgtcgca agtttcagac cggttagaga agaagagtgt caacggatga 180

tggacaagat ctataaagcc gctgatcaat caggcaccgt tgatctaagt gagcttctct 240

tgtctttcac taactgtgtc gtatgtagac aagcttttgg gaaacggtac aatgagtacg 300

ggacanagat gaagagattc atanatatcc tgtacgaaaa gcaagcactt ttggggcaac 360

cctggttttt ccccgaactt ttcccctaat tcnggttccc ttgacaacct cantgggccc 420

aantgcacgt ttcaaagaaa gctttcaa 448

<210> 420
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-B2

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agactttcaa tttctctgta tattttcctt ttgattccca gaaaatgtca ctagattcca 180

ctttctagct tgcgttttct cgggaatctg aagtttcctt ttgtgttgaa tcgctgggaa 240

aaatctgatg gaagcagctt caaggttttt tgtgtanaag tattcggatt ccgtcgacta 300

cnacggcgac gggcggnggt tcacgttcac tcgaacgccg gtttaaacta cgtttgtgtt 360

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gnggg 425

<210> 421
<211> 411
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-B9

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caaccgtgcc cttcaattcg cgacgagtga cccggctggg ccggtatact tgtgtgctgc 180

cagggaagtc atggagtccg agatcgaacc atactccttg aatcaagact tgtggtctcc 240

agtcgagatg ggcggactcc ctgaccaggc agccagcaag attgccaacg ccctggccgg 300

tgccgagaaa cctctggttg tgacgggata cgcggctagg aaccacgacg caccgtctgc 360

cctcgtcgaa ctagctgata cggtgaangg cttganaatc ctccaatggt g 411

<210> 422
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-C5

<400> 422

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aacaataacc tcaaagaaga gcacagcgac tccacaggtg aaactgctga caagagtcga 180

gcagctcaag cttctgacca aagccgagaa agcaggactt ttgtctttag cagagaaatc 240

aggtttctct ctatcgacca tcgagcgtct tggattgctg accaaagcag aggagttcgg 300

cgttttgtct gccgccacaa acccggaaac gcctgggaac gttattcact ttgagcctcg 360

gtttactccc tcctgggacc ggtttttgca tanttgg 397

<210> 423
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-C7

<400> 423

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ctgttgagcc gcgtccatat gggaccttta atacgattcg agaggtttac gatgaagctg 120

gaataactgg cttctggaaa ggtgtaattc caacattgat catggtaagt aatccgtcaa 180

tgcaatttat gttgtacgag acaatgctaa ccaagctgaa gaaaaagcgt gccttgaagg 240

gtagcaacaa cgttaccgct ttggagacat ttcttctcgg agctgtggcg aaactcggag 300

ctacagtcac aacttaccct cctccttggt tgtaaatcnc cnacttcaag ccaaacaagg 360

tcacaacaag gggacaaaag gacaacaatt acaaaggaac attgggaccc aatt 414

<210> 424
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-B10

<400> 424

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catcatatca accaactcag caattcagct cttactccgg gatgttttcc ccggaaacgc 240

atccggagat tgtgaggagc tttgagtcgg cggatagaaa ccggagcgga tttctcgaag 300

aatcggagct ccggcaagcg ttgtcgttat ctgggtacga tggaattagt aacagaacga 360

ttaagttgct gttgtttaat tacaaagatt cctgtanatt ctctgcttcg ggct 414

<210> 425
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-C8

<400> 425

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caacatcaaa gaagacacat acttcgtctc agaactcaaa cccacggagc aaaaatcact 120

tcaagaactc aaagaaaagc tctcagcttc atcctccaaa gcttcttcaa tgtggggagt 180

ctcactcctc ggtggagacg acaaagctga cgtaatcctc ctcaagttcc tcagagcaag 240

agatttcaaa gtagcagact ctttgagaat gcttgagaag tgtttggagt ggagagaaga 300

gttcaaagca gagaaattga cagaagaaga tctgggtttt aaagatttgg aaggtaaagt 360

tgcttacatg agaggctacg acaaaagaag gacacccagt tgttacaatg cttaang 417

<210> 426
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-D1

<400> 426

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gaaaaactta gatttttggt tttgctttcg gagttattcg aatttgaaat atctgaatct 180

gttgattcat ttattctccg catgaagctg tgttggtgaa gtttttcgga gatttagggt 240

ttctgagttg ttcctcgttt ggttggtgaa taaagcgaag atgaacgtga tgcgtcgtct 300

caaagagcat tgcttcgggt cggacctcca tttcctcgga ttctggtggg gactaagccg 360

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<210> 427
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-D11

<400> 427

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ccaaggaaga gagtaagagt actactaaac cagaatcagg ctcaggagct ccaccttcac 180

cttcaccgac tgatcctggg cttgatttca atgcttttga tttctccggc atggctggga 240

tcctcaatga tccaagtatc aaggaattgg ctgagcaaat agctaaagat ncttcaatta 300

accaagttaa ctgaacaact tcanagatnt gtgccaaccg gatntcaaga angangtcna 360

nctaactttg atncacaaca atatatgcaa acaatgcaac aaggtaaggg 410

<210> 428
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-D3

<400> 428

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acccgagtat tttcttggag gaatagacca agatcagtca aatgatcata tggaacttcc 120

atctcctctt caatgttctg tgaaagtgaa gttcccacaa tctgatccat tcttggtgaa 180

catgcttgac taccagatca ttcctttagg ctttcaatac ataatgatcg gttgggatcc 240

tgaatcattg gcaaatggtt acgtangcgt tgcttttctt ccggtaaaga agaacggagg 300

agacgaattc gttgtgcttc ttcgctaacg taatcanttg ttggtgttga aaaattccga 360

aatgaagtgg atgaaagtca agaaaanctc caatgcctca atgcaagg 408

<210> 429
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-D5

<400> 429

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tttttcagtt ccgaatccgg tgagaactcg actactgcca ctgagtcttc gccgactgat 120

tcatccgata agaaggatct cgttgtagag gatgtcagca acaaagagct taaaagccgt 180

atagacaagt ctttcaatga gggtaatgaa gatgctttac ctggagttat tgaagcactt 240

ctacagagaa gacttgtaga caaacacgca gagactgatg atgaattgat ggaaaaaatc 300

gagagtctac ctttcaaaga tgatgtcaag ggatgaagat tttgaatccg atttcgaaga 360

accgcattcn actgacnaag aacttgangg atttgtanaa ctctcccgag t 411

<210> 430
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-D7

<400> 430

aagcttttct cagntcaggg agagacaaaa ttgcatgcnt ncaggtcgac tctanaggat 60

cccctcgggg aattccaatt ccacattttc aagaaataag gaggcaaaaa tgttcatata 120

tgaattggaa ttatttgttt tcttattagg cctatcctga agccaaagga aatgagatcg 180

gaattcctcg gggaattcca attccacatt ttcaagaaat aaggaggcaa aaatgttcat 240

atatgaattg gaattatttg ttttcttatt aggcctatcc tgaagccaaa ggaaatgaga 300

tcggaattcc tcggggaatt ccaattccac attttcaaga aataaggagg caaaaatgtt 360

catatatgaa ttggaattat ttgttttctt attaggccta tcctgaagcc aaaggaaatg 420

ag 422

<210> 431
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-D9

<400> 431

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gtggaacaat tcaattagcg atttgcagat cagnngagaa nagcacagag aagacgatga 120

tgctaggagg cgttcatgat ctccgaggaa atcagaacag tggagagatc gagagtctcg 180

ctcgatttgc cattcaagaa cataacagac aacagaacaa aattcntgag ttcaaagaaa 240

gaatgtcaaa gcaanggaag caaggaattt gcagggaacc aatgttacaa cttaaaccct 300

aagaaacaaa aagaangnga ttaagaccaa naaattttga aancaaaatg tnggtnaaac 360

catggntnaa cttcaaacaa tttcaaggag ttcaaaggat caacctccct ggaattcanc 420

ttgttc 426

<210> 432
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-E11

<400> 432

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tccacctcgt taatcaccag atctgtttcc tacgccgtca ccgattcccc gccttccagg 120

tcgactttta attccggagg cggcggaggt agaaccggtc gtgttcccgt cggtatcgga 180

cggaagagac tgaggattgt tgtcaccggt ggagctggtt tcgtcggtag tcatcttgtt 240

gataagctta tcggtagggg agatgaagtg atcgtgattg ataacttctt cactgggtag 300

gaaggagaat ttgggttcat ctattctcga atcctaagtt tgaagctaat tcgacacgat 360

gttgttgagc caatcctcct tgangtcgat nagatttaac aattaacctg t 411

<210> 433
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-E3

<400> 433

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aagataagaa gaagttcatt accaaagatg aagaaccaga acagttagtt catcttaatt 120

ctcaattttt tccatcatga gattgtagaa aataaacaga aactcattgg atggtaatgt 180

aattttagtc tcctttgcag aatttagatt ttgtttggta tgtgacaatg acatgtagac 240

tagtggtttg tgttagtatt gtatcaatac acgaaccata aatttgatcg aaaatatttg 300

gtttttgtaa gttaagtcaa aagaatctta aactcttgca tgcacatttt tcataaacat 360

gcaatattgt gactggacga aaatggntat gggatgagat ttgcattaca actta 415

<210> 434
<211> 178
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-E7

<400> 434

cgagagctga tcaagaccgt ttcttcaacg ccttctcttc cgcgtttgta aaattgtcgt 60

cttacaaagt gttaaccggg aatgaaggag taattagaag cgtgtgtgac aaggttgatt 120

gatgtatatt tataattatc aaatgttnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnn 178

<210> 435
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-E8

<400> 435

ctcgaggctc tctagtgaag aatccgccat ggctgttcca tttctaagct cttctctaca 60

actcacaccc acttctccga ttctcttcac taaagtaaca ccaacaccaa taatccacaa 120

ccacagatca acatgcacta tacccacaaa gcctcgtcta cgtctcctcc gccgctccgc 180

cgtcgctgga accgccgtat ctgatcaaac agaaggaggt ggagatgttc ttttaaaccc 240

tgaagaagag aaacgtgttg aggtggcgga ttatgattgg acagaggaat ggtatccatt 300

gtacttaact aaaaacgtcc ctgaagatgc gcctcttggc ctcaccgtct acgattgtca 360

aattggtttg tataaagacg gtgaangaac acttcgttgg tacgaagatt cggt 414

<210> 436
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-F3

<400> 436

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agttagagat atatctcccc tgttccagtt ccagagctgg gagaaaacag tggactgtca 120

cagccctggc ccggggctaa tgccagcgag ttttaaagtg aaatctgcgc cacttgaggg 180

aaatgatggt tcatttgagg agtttttaga tccagacttt ggtggatcag ccattggacg 240

tgttagccct gttgactctg gtttgtggtg gatcatattg ctgagagctt atggaaagct 300

cacgggtgac tacacgttgc aagagaaaat tgatgttcaa acagggatna aagttgatac 360

tcaagctttg tccaaccgac ggttttgaca tgttcccgac tcctacttgt cactgacgga 420

tn 422

<210> 437
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-F6

<400> 437

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngaccacg aagctaaacc 120

ctcaatcttc cccactcatt ttcactggta cacttcctct cttgcctcac tcacctcttc 180

tcctccctcc attatccaca catacgacac cgttttccat ggcttctccg ctagactcac 240

ttcacaagac gctagtcaac tcttagacca tcctcatgtc atctctgtta tcccggaaca 300

agtccgtcac ttgcacacca ctcgttcccc tgagtttctt ggtcttaggt ccaccgacaa 360

agcgggtcta ctcgaagagt ctgatttcgg gtcggatcta agttatcgg 409

<210> 438
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-G5

<400> 438

aaccccnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnntggat cttctctttc tctttttctc tcttctcctc tcttacctct ttttcaagat 120

ctggaaactc atagactcaa agcaagacaa agattgctac attttagact accaatgtca 180

taaaccaacc gacgatcgaa tggtgagcac tcaattcagt ggagagatca tttatcgaaa 240

caataccttg ggtttaaccg aatacaagtt ccttctcaaa ggccataagt aagctcaggg 300

attgggagaa acaaaaccta cgcctccaan ggaacttggt cntttgaagg gnccgaagaa 360

agagcgttcc ttccgttaca aagatnggga ttctcccgaa gatgggaann agttctacgt 420

gggacaagca tccg 434

<210> 439
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-H1

<400> 439

catgacttgt gaaaccaaag gatattggaa tccttgttgt gaattgtagt ctctttaatc 60

caactccttc gttatctgca atgattgtga acaagtataa gcttagaggt aacattagaa 120

gctacaatct aggcggtatg ggttgcagcg cgggagttat cgctgtggat cttgctaaag 180

acatgttgtt ggtacatagg aacacttatg cggttgttgt ttctactgag aacattactc 240

agaattggta ttttggtaac aagaaatcga tgttgatacc cgaaactgct tgtttccnag 300

ttggtggctc tgcggttttg ctatcgaaca agtcgaaggg acaagagacg gtctaagtac 360

aggcttgtac atgtagtcag gactcaacgt ggagcanatg ataaagcttt cccgttgtgt 420

taa 423

<210> 440
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-019-Q1-B1-F2

<400> 440

gagcagtaat gaagcacatt tcatggaggg tgaaagcatg cgagcagctt ttgaggagtg 60

gtttgtccaa cacaaagttg atgtaatctt tgctgggcat gttcatgcct acgagagatc 120

gtaccgaata tcaaatgtgc ggtataacgt gtcaagcgga gatcgttacc cagttccaga 180

taagtcagcg cctgtttata tcacagttgg agacggagga aatcaagaag gtctggctgg 240

aaggtttacg gaaccacagc cagattattc tgcatttcgg gaagctagct atggccactc 300

tactctggat ataaagaacc gaacacacgc tatataccac tggaaccgca atgatgatgg 360

gaagaaagtg gcaacggatg aatttgtatt acacaaccag tactggggaa agaacattcg 420

acgg 424

<210> 441
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-H12

<400> 441

ttggagatat ttacagataa aaaatgggag cttcgaaact ttccgggatg caaaagcaag 60

tcttgagtct ctacagagga tttctaagag cagctcgttc aagaccaata gaagacagga 120

agagaataga gatgattgtg tcaacagagt tccgccacaa ctctaaggag gtcgaccgta 180

agaattttca gtacatcgag tatttgcttc ggttaggtac taaacagctt gatcaactca 240

aaagccctgc catagttagc ctctcctcga tcaaggtcgt tacatctaaa acctgatacc 300

ttattttata gcttgttgct ctagtgacca tagataacaa agctgaggaa attgattcgt 360

tttcctcttt ttacattgag ttatgtatgt atgatgatgg atgttcaaag nccattataa 420

aataaagaga aatgtgatca caaatggata tata 454

<210> 442
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-H2

<400> 442

agaatgttnt taagccgccc aaagagctaa naaatcgcat gcacgcntac gtaagctcgg 60

aattcggctc gagaactatt ccttcttcgc caagttctct gagctataga agaaggaggg 120

atttcttcag accgccattg ttgcccacct tctctccttt ctatttttcg ccgcatttta 180

ctcgcttact gacaaaagtc ttctactcaa gtctctctct cgctctcttt ggaggctcaa 240

ttagggtttt gttgtcgtga gatttgatta cacaaattgc tgaatttggt ttcgattatt 300

ggtgttattg ttttcgaaga tttccagtga gtttccgttt atggatctga ctggaggatt 360

tggagctaga tccggcggtg ttggaccgtg cccgggaacc aatangcctt gaatcgctac 420

atctcggtga cgaatttcgg caactagtga cgaactttac ctcccgagaa ccccgggggt 480

tcgttcaagg gctttg 496

<210> 443
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-H4

<400> 443

cttaaccncg gaattcggcn caancttncc ncngaaatnc ctttgtctga tcgtgaactt 60

gtagtagtgt tttcgtgata gaaaattttc aaagttaatg tgcatacact agctagtgaa 120

gaagaagaag actaactaag aatggaagga acttgttttc tccgtggaca acctctcaca 180

acaataccct ctcttcccag cagaaaaggg tttcttctcc aaagatggaa gaccaatcgg 240

attgtcaggt tttcaggttt taagaatcac tcggtttctg gaaagtcgag gtctttcgat 300

cttagcctca gagcttcagg tcccattaga gcaagctctg tagtaacaag aagcaagccc 360

taccaactta aattccaaag aagaagacct tgtctttgta gccggtgcta ctggtaaagt 420

tggttctaga actgtgagaa nagctactga 450

<210> 444
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-H6

<400> 444

gaggtggant gggatgcaag ctggtccact gcctttgcat tcgancaagc cacngtggca 60

cctccancaa ccgttagtct cgcaganttc tgcgggaana acctttcaaa natcattctg 120

tnntancaan cttctttant gtttggagtg ttgtgaggga agatatgccc cgcgttcgac 180

atcatcttgt cattgacatt ttgagcaccg tgatctttca ngccatcgat ccaactgtag 240

ccaacancat cactgaactg ttcgactgca aaggcattgg agtgggatgc aagctggtcc 300

aacaatatgg atccatcagg aacagccgct atcggagttc acctttcggg ctacgatggc 360

aacancgtgg gattggncat accaccactt aangcaantg acaacatgcc gatgatgatg 420

ggtc 424

<210> 445
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-H9

<400> 445

gtgagagaag aagatcgatc aatcaatcat caaactctct gtgtgccaca tgcattacta 60

ctgttgactt gttcaataaa ggtaaagtaa gatcaatccg gcgaatcttc tttcgttttc 120

cggcaccgat ctcggtggat ctccgattca catggcggcg gataatgctt atctgatgca 180

gtttgttgac gaaacctctt tttacaaccg aatcgttctg agtcatcttt tgccggcgaa 240

tctatgggaa cccttacctc attttctcca gacatggctc cgaaattacc tcgccggaac 300

cctactatac ttcatctccg gtttcctctg gtgcttctac atctattacc ttaaaatcaa 360

cgtttacctt cccaaagatg caattcctac aataaaggct atgcgtttgc aaatgtttgt 420

gggnaatgaa ag 432

<210> 446
<211> 353
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-A1

<400> 446

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aaccgggttc caaacgaaga tttgacgccn gctgaagcta cgaancaagc tctctttgaa 120

acaacaagca gtgatttgat tattattaca tgtaattttg tcaaggtcnt taagaggaga 180

ttantgggta atgatctggt gcantgaacc ctattttcat atgttaagtg cggttctgta 240

atgaataaaa tagagaagcg tttggtttcc tctaattgta acaaaaggat cgttggatgt 300

atgatagaag ttttttcntat aaaaccattt caagaaaaaa aaaaaaaaaa ggg 353

<210> 447
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-A10

<400> 447

cgagctcaac tttcctggtg gatccactgt caaggatgaa gaggacaatc ttaagagaag 60

gataaaggag actatggaga gagctttctg ggataatgtc atggaatcca tgaaattgga 120

gaagccagac tatagctgca tctctaacct tatgaaagaa gtgagtgacg aactttgcca 180

gatggtacca gatagctgga aagtagaaat aactgaaact attgatctgg acattctctc 240

acagttgctc aactccggca ccttggatat cgattacctt ggaaagatgc ttgagtttgc 300

gttggctact ctgcggaaac tctctgcccc aactaatgac cgtgagaatg aaagcaacca 360

acgggattta ctcaanggac ttcacaaggt tgtgttaagc tgaaaatgaa tcc 413

<210> 448
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-A12

<400> 448

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnntcgcgt gctttttttat tgtccccttt gnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnta ttcatggatt aacccttca ntccacttcc 360

aagtacctat tttactaagg agttggactt ccccctttc cgacaagcaa caaaaaa 417

<210> 449
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-02-Q1-B1-A2

<400> 449

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tcgttgaagg tgggattgcc tctgtaatcg ccggttgctc tactcaccct ctcgatctaa 120

tcaaggttcg tcttcagctt cacggtgaag caccttccac caccaccgtc actctcctcc 180

gtccagctct cgctttcccc aattcttctc ctgcagcttt cctggaaacg acttcttcag 240

tccccaaagt aggaccgatc tcactcggaa tcaacatagt caaatcggaa ggcgccgccg 300

cgttattctc aggagtctcc gctacacttc tccgtcagac gttatattcc aacaacaagg 360

atggggtcta tacgaagtgc taaagaacaa aatggactgg attctgaatc aagggaaat 419

<210> 450
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-02-Q1-B1-A6

<400> 450

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tcgaactctg tttgattcca ctgtcgattt aatcatctta cctaatggcc ggaagggctg 120

cgacgtcgtc ggcgaaatgg gcgagagagt ttttgttcag aagggtttcg tctaatcctc 180

ttggagctac ccgtaactgt tcttcggttc ctggagcttc ttctgcaccg aaagtccctc 240

atttttccaa gagaggaagg atattgacag gagctaccat tggtctggcc atagctggag 300

gagcttatgt tagtactgca gatgaagcaa ccttctgtgg gtggctattc aacgcaacaa 360

aggttgtgaa tcctttcttt gctcttctgg gatgctgagt ttgcgcataa gctg 414

<210> 451
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-A9

<400> 451

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ttcaggaatc cgtgagcaat gacactatgg taaagcctga tagttctact acacctacac 120

ctggtagaca aacaagacag tcagatgagg cttcaaagtc tttcaggaca cctggacgtg 180

tttctactcc aacggggtca aagctcaaaa gctcgaataa caggcatgaa gatcttttac 240

gtatggaacc cgaagaattg atgttgagca cagaagtaat agggcagagg gacagttggg 300

acctatcgga tagagaaagg gatatacgcc aagggattga tctagctacc actcttgagc 360

gcatagagaa gaatttcgtc atcagtgatc ctcgtctccc tgataatccc ant 413

<210> 452
<211> 162
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-019-Q1-B1-B7

<400> 452

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ctcttcaaat ttttggaaaa ttcaatctat atgttatacc aaaatagctc ctttgtgaag 120

tcctattgaa tctctcgcct ttcaaaaaaa aaaaaaaaaa aa 162

<210> 453
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-C2

<400> 453

agtgcaaacc annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnagtttc atggagatca ctaatcgttg gatgtttagg agatccagaa accctaatgg 120

catcttcaaa gaaacctaaa agaaaaaatg acgtcatcaa gaaacagagc tcttttcaaa 180

gactatcgat acttgatatg agcaatccaa gttccaacac tttgtcagaa gatctatcga 240

tttctttggc cggatcagat cttcatgtgt ttaccctagc ggagcttaaa gtcattacac 300

aaagcttttc atcgaccaat tttctaggtg aaggtgggtt tggtcctgtt cataagggtt 360

tcattgatga taagctacgt cctgggtctt aaagctcagc ctgttgctgt taaattgctt 420

gatct 425

<210> 454
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-C3

<400> 454

gtcgcccnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnagagag aggaaacgat cgaagcttct taatctgata acgattgcta cttcagcatc 120

tgttgatcgt tcacgatggc ttctgaacag aatcctatgg ctttctcanc atagatgtct 180

ggctcttgtc cgttaacgtt tgtcttttcg acaacgtttg atcggctctc ttctgacacc 240

atcttgtttc tcttttacgg tggtggttgg cttgtgtctg gcttccgttg gcttctacag 300

tancggtggg ctanctaagt tctagaaatt caccatatag ctctggtgtt tcttttaact 360

tttgggccag attgtttttg ggttcaaaaa ttaagctttc nt 402

<210> 455
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-C4

<400> 455

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnncggattc tgagctgcga tgcttctttg attcacttga 180

gagtgttttg gagttttgac tacgacttgt gatggcatct agacaaggat caaaatcgag 240

aaaagcaggn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnntacc acaaactgct cagcggtcta 410

<210> 456
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-B6

<400> 456

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gtccaccagc gaagagaggc cgtcccttcg gtagtacaag nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt caccgtcagc tttacttggt ccttctcttc 180

tagttcacaa ttccttcgtc gagcagaaca atagaagaat agttcttgcg ttgcagagtg 240

gtttgaagag tgaggtgaca tgggcattga acacacttac gttgctttcc ttcaaggaaa 300

aagaagatat tcgaagagat gtcatgcctc ttgctaagat agctgggctt gcttgatgcc 360

cttctcttaa ttatagatga ttggcgtgac atagctctcc caaaggacct gacaagaagg 420

aaactagagt tagaacttta ngtacaaatg cttcagttac ngggatttgg 470

<210> 457
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-C5

<400> 457

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tgcagctgat ggaaaacaaa gtggttgcag ccattggtcc acaatcttca gggattgctc 120

acatgatctc ctatgtanct aatgagcttc atgtacctct cttgtcattt ggagcaacgg 180

atccgactct ctcctctctg caatttcctt atttcctccg caccacgcag aatgattact 240

tccaaatgca tgcgatngca gattttctat catattccgg atgggagaca ngtcattgcg 300

atattcgttg atgatgantg tggcangaac gggatatctg tccttggcna tgtattaanc 360

caanaaacgc tcgangatct cttacaaggc tgcaatttac 400

<210> 458
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-C8

<400> 458

aaaaaaaaca aaccttcctt aaccagaacc aaatttcaga tttttaaaca acataagctc 60

taatggcgtc accaaagtca cccacaagac caacccaaca aaacccacaa cccaatttcc 120

acgattttct tcctaccatg gccggaaacc taggcggtga aggtctgatc ggagagctat 180

gcaacggctt cgagcttttg atggacagag agaaaggtgt catcacgttc gagagtctcc 240

gacgtaacgc tgcggcggtt ctgggtttag gagatttgac tgatgaagat gtccggtgta 300

tgattaaaga agggtgattt tgactgcnac ggtgcgttga atcagatgga gttngtgtgt 360

tgatgtttag gcttagccct gatttgatgg aagcgtcacg gtgtcccgtc acgggaggtc 420

<210> 459
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-C9

<400> 459

caagactata acanccatgc acgcgtacgt aagctcggaa ttcggctcga gcacatctca 60

tttctccgct gtttcgtcgg caaattttcc catttttgat tccgaagata atagatatta 120

tcaacagagg ataaggataa aacccagaac antcattata atttagtggt gaagttgacc 180

aaatttataa actgatccaa ttttaaaatc taagagatat ggagaacatg gacgatttct 240

caccggagaa tgttttagca ccaccaccac cacctcctcc aatgaagaag tcaacggatc 300

tgtttatgca aagaagcaat agctttgttt ctaaagctac nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn naatgtcatc ggaatgggtt cagatgtnat ccgagggatg a 471

<210> 460
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-D1

<400> 460

gatctaccta gattccgatc taatcgtcgt cgacgacatc gcaaagctct ggatgacgaa 60

actgggatcg aaaacgatcg gagctcccga gtactgtcac gcgaacttca caaagtattt 120

cacaccggcg ttctggtccg acgagaggtt ctccggagct ttctccggga ggaaaccgtg 180

ctacttcaac acgggagtga tggtgatgga tctagagaga tggaggcgcg tagggtacac 240

ggaggtgata gagaaatgga tggagattca gaagagtgat aaggatttac gagctgggat 300

nattgccgcc gttccttgtt ggtgttcgcc ggagaagtag ctccgataga gcatcngtgg 360

gaaccagcat gggcttggtg g 381

<210> 461
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-D4

<400> 461

aatgaatttt ttagcccccc aagagctaaa aatcncatgg ncncntncnt tanctcngna 60

atncggtcca aggncaacaa caanggcttc ccnggntaaa aactttccgg ttccggtgcg 120

aactccgttt caacctttca aattcaaatg caaantcgaa tctcccgcga aaacgcgatt 180

gctctctccg gcgaccgaag aaacatgttg tcagatcgtc aagagcctgg cgtattcgtt 240

gcttatccga tgatcctggt tcgagtcatg ttttcgttgc aagtagaagg aaaatggtag 300

tcttgttgtc gacggtgcag cttctgtctc atatgcttcc gcaaaacggg aacgcagctg 360

agatttatcc ggtgatgcaa aacgaaataa ggaaagtggt gacaaagggc aaggctgctg 420

gtgtgcttcg tttagtgttt catgatgctg gaacctttga actggacgat nattctggtg 480

gcatcaacgg attct 495

<210> 462
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-D8

<400> 462

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tcatgttaca taaaaacgac atacatgaaa gcacaaataa naaggcttct ctanttctaa 120

cagtagttaa atanaaaaat tcnttttttcg aaatgtaaag aaatataaaa ctccctgata 180

tccacatgat tttcccaaac ccccccaaca aagtacagan aaagaacata gaaaaacnct 240

ancggatana tgtgtttana taatcaatcc ttcnncttct tttttntgtt cngcntcgct 300

ctgcnctgct tccggannat gtatagattc ggcaccgctg ttgtttaacc atttcacana 360

agcntccatt cagaaatctc ctttccggaa ggagaaggtg gcgtcaagac gtaacagan 419

<210> 463
<211> 372
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-019-Q1-B1-E2

<400> 463

ccaatttctc ttgtctcaaa tttcagattc tcttcctctg aaaaaaatca aaaaccaagt 60

cttctaattc catctcctct ctgtacccat ctcctaaaaa tctcaacttt gagtcaaaat 120

tttgtcttct ctcaaaccaa ttcatagttc taaaaatctc acctttatct caaatttttа 180

atctttcatc tgatttctga aacccaaatt ctctaatctc atctttgagc caaaaagttt 240

caatctttcc tctgatttct gaaaccaaaa atctctaatt tcaaaaaaaa aaaatctcac 300

ctttgggtca aaaatgtcag tagcttgtgg actagaatgt gtcttctgtg taggattcag 360

tagatgggca tg 372

<210> 464
<211> 364
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-E7

<400> 464

tttcatttct tcttgtgtgg ggaaatctgc atctttgtcc actctctttt attttcccaa 60

gaaaggaaac aaattcccac aatttcttgt cttctcttaa agttcttctt aagttgaagc 120

ttcttgtctg tttttgagat ttccagtaag aagaaacttc gctaattttc ccgcggaaat 180

tctcttacaa tcataaagtt ttctttttt tttgctctcg agaaagtttt gagaattttt 240

anttcttcaa atggcgtcaa gaganatatc aacgatgatt aaacaagggt ttaacgcagg 300

accattactc nctttttctc cgttaagaan ctcaactccn attaaactcc ccaancgcct 360

ctca 364

<210> 465
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-E9

<400> 465

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gatgacctcg ctacttcttc tcagaacgct tccgcttctc cgcaacggat ttctcaacca 120

tcgtcatcaa gttggtatcg tagctggtgg aattctcagt caccgtcggc gtttgttgtg 180

ttctcttgct gatagaccac agttttacga gaataatgat tctgtttctc cggtggaggg 240

atccggcgcg gcggcgatga acgtgacatc gcctgttgtt gataatagct ggcgttatga 300

agattctgat tatcggaaat ggaagaatct agaagctgag attcctcgag atattgaanc 360

tanttctcct ctcgctaaaa aaaatcttca atccgataag tatttngg 408

<210> 466

<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-F1

<400> 466

ctacgcacgg attcgccgcc caaagatcgc ctgcatgagg cagcactgac agtcagtgtt 60

gaatagcaga ccagttgacc tgtcacgaca gtaaacggcg agttgaggac tgcatgctta 120

gcgcatccag ttgttgtgag tcgaatgcgg gggacagcac gacaatatag tttgttgatg 180

cttgttaagt agcattgttc ttctggtgtt cctacagcac agcatcttgt agcagtgcat 240

ccaagtctta tctagccttc gtatttacag ctgtaaatag cctgcaggct gtacggtaca 300

ttcacttcac caatgcttaa attttaaagc ccttgttggc ccctgttgat acttcattac 360

acaagtgggt ttttaaaagc cagccagccc caaaaaaaaa aaaaaan 407

<210> 467
<211> 514
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-F10

<400> 467

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gaattcggct cgagtggaaa acaaagagac caagcaagaa ccagcagcag cagctgagca 120

aaagaccgtt ccgttgatcg aagatgagat cgagaggagc aaagtcggga tcatgagagc 180

tctctgcgac cgacaagatc ctgaaactaa ggaggtggat gatctgatga taaggaggtt 240

tctgagagcg cgtgacctgg acattgaaaa ggcttcaacg atgtttctaa attacctgac 300

ttggaagaga agcatgctcc caaaggggca cataccagaa gcagagattg caaatgatct 360

atcgcataac aagatgtgta tgcaaggtca tgacaagatg ggtcgaccta tcgctgttgc 420

cattgggaac agacataacc cttccaaagg caaccctgac gaattcaagc gttttgttgt 480

ctacacgctc naaaagattt gtgctaaaat gccn 514

<210> 468

<211> 526
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-E3

<400> 468

ggggaatgaa ttttgtgacn cnctagangc cctaanacgt cgaaagcacc cgtacgnnag 60

ctcgnaattc ggctcgagtt cccccgcagc tcgagcttag tctcggcgga ggaggcggcg 120

gctcgtgtta tcagatcccg atgtcgcgtc ctgtctactt tttggacctg atggggatcg 180

gtaacgtagg tcgtggtcag cctcctcctg tgacatcggc gtttagatcg ccggtggtgc 240

atgttgcgac gaagatggct tgtggtgccc aaagcgactc tgattcgtca tcggtcgttg 300

atttcgaagg tgggatggag aagagatctc agctgttaga tctagatctt aatttgcctc 360

ctccatcggg nacaagcctg agcttttaac ggtgtcgttt caattcgaaa gcgcaatgcg 420

tttcttcctc ctttttgagc tgtgaaaaat tcgttttctc aatagntttc ctctcctctc 480

tctcccaagt ccaaatttaa taccaagttt ttnagaaagg aaaaaa 526

<210> 469
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-B9

<400> 469

gagacagcaa caaacagaga aaatgtgtgg cggtgctatt atttccgatt atgcccctct 60

cgtcaccaag gccaagggcc gtaaactcac ggctgaggaa ctctggtcag agctcgatgc 120

ttccgccgcc gacgacttct ggggtttcta ttccacctcc aaactccatc ccaccaacca 180

agttaacgtg aaagaggagg cagtgaagaa ggagcaggca acagagccgg ggaaacggag 240

gaagaggaag aatgtttata gagggatacg taagcgtcca tggggaaaat gggcggctga 300

agattcgaga tcacgaaaag ggtgttagag tttgggcttg gtacgttcaa cacgggcggg 360

anggaacctg catggcttat gatgttgcgg caaancagat tcgtggtgat aaagcaagct 420

caacttccaa atntgc 436

<210> 470
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-C10

<400> 470

cagcaacaaa cagagaaaat gtgtggcggt gctattattt ccgattatgc ccctctcgtc 60

accaaggcca agggccgtaa actcacggct gaggaactct ggtcagagct cgatgcttcc 120

gccgccgacg acttctgggg tttctattcc acctccaaac tccatcccac caaccaagtt 180

aacgtgaaag aggaggcagt gaagaaggag caggcaacag agccggggaa acggaggaag 240

aggaagaatg tttatagagg gatacgtaag cgtccatggg gaaaatgggc ggctgagatt 300

cgagatccac gaaaaggtgt tagagtttgg cttggtacgt tcaacacggc ggaggaaact 360

gccatggctt atgatgttgc gggcaaacaa attcgtgggg ataaanccaa actcaacttt 420

ccaaatttgn aacatcctcc tcctcccaaa tttaaaccnc c 461

<210> 471
<211> 369
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-D4

<400> 471

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gcaacagagc cggggaaacg gaggaagagg aagaatgttt atagagggat acgtaagcgt 120

ccatggggaa aatgggcggc tgagattcga gatccacgaa aaggtgttag agtttggctt 180

ggtacgttca acacggcgga ggaagctgcc atggcttatg atgttgcggc caagcagatc 240

cgtggtgata aagccaagnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnngcc acaatcaacc gattagcctc cggcnaaaaa ggtctgcntt 360

gtccctcaa 369

<210> 472

<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-F8

<400> 472

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accaaggcca agggccgtaa actcacggct gaggaactct ggtcagagct cgatgcttcc 120

gccgccgacg acttctgggg tttctattcc acctccaaac tccatcccac caaccaagtt 180

aacgtgaaag aggaggcagt gaagaaggag caggcaacag agccggggaa acggaggaag 240

aggaagaatg tttatagagg gatacgtaag cgtccatggg gaaaatgggc ggctgagatt 300

cgagatccac gaaaaggtgt tagagtttgg cttggtacgt tcaacacggc ggaagaagct 360

gccatggctt atgatgttgc ggccaagcaa attcgtggtg ataaagncaa nctcaacttc 420

caaattctgc accatcctcc 440

<210> 473
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-030-Q1-B1-G2

<400> 473

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acttaacctc ggaattcggc tcgagcacag caacaaacag agaaaatgtg tggcggtgct 120

attatttccg attatgcccc tctcgtcacc aaggccaagg gccgtaaact cacggctgag 180

gaactctggt cagagctcga tgcttccgcc gccgacgact tctggggttt ctattccacc 240

tccaaactcc atcccaccaa ccaagttaac gtgaaagagg aggcagtgaa gaaggagcag 300

gcaacagagc cggggaaacg gaggaagagg aagaatgttt atagagggat acgtaagcgt 360

ccatggggaa aatgggcggc tgagattcga gatccacgaa aaggtgttag agtttggctt 420

ggtacgttca acacggcgga ggaagctgcc atggcttatg atgttgcggc caagcagatt 480

cgtggtgata aagccaagct caacttccca 510

<210> 474
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-037-Q1-E1-G8

<400> 474

ttttttttt ttttttaca taatcataat aaaattgcat tatagatgaa gaaactgaag 60

ctacaaatta cataagacaa aagaaaaaaa gattacataa aatgaaaact gtggcatggt 120

cgagcctgac aaaaaaccgc aagctggacc gacacagaga gactaataca aaccataata 180

caaatattaa catacgaaat ttaacactaa tccatattta attaattact cttgggccag 240

tcatgcaatt tcacaaaaac tccattgcaa gcggctgaat ttcctatttt gcccctaagc 300

tagaatcgaa tcccaatcga tctcgtacga cggatacttc tccaacgaga acgtctcgtt 360

ccactgcggg cggctcctcc gggtcagcga acgtcaagtc cgacnacggc gaaagattca 420

agcggtggga ctc 433

<210> 475
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-H7

<400> 475

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cattatgaca aatgttaaag gagttttggg gcatnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng cctctactta 180

acttcatcac aactaccctc aagatagagg ctcatggctt ctcgcaatgc aaacaggaac 240

tcctgnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt 300

ttggaggttg ataaacgaac gatgcgggaa actcacaaac atgcagcctt atttacatga 360

aactgggatc tcttcagaag actcctccaa tcatggaat 399

<210> 476

<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-08-Q1-B1-B2

<400> 476

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tcaccaaggc caagggccgt aaactcacgg ctgaggaact ctggtcagag ctcgatgctt 120

ccgccgccga cgacttctgg ggtttctatt ccacctccaa actccatccc accaaccaag 180

ttaacgtgaa agaggaggca gtgaagaagg agcaggcaac agagccgggg aaacggagga 240

agaggaagaa tgtttataga gggatacgta agcgtccatg gggaaaatgg gcgggctgag 300

attccgagat tcacgaaaag gtgttaaaat ttggcttggt acttcaacac ggcgggagga 360

aactgccatg gcttatgatg ttnccggcaa acaaattcgt ggtgataaag ccaa 414

<210> 477
<211> 348
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-08-Q1-B1-E7

<400> 477

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gaaatgggga cgagtttcag aacctgagtt acggatttga gccggattat gatctgaaac 120

agcagatatc gagcttggaa tcgttccttg agctggacgg taacacggcg gagcaaccga 180

gtcagcttga tgagtccgtt tccgaggtgg atatgtggat gcttgatgat gtcatttgcg 240

tcgtatgagt aaaagaaaaa aaaataagtt taaaaaaaag tttaataaag tcctgtaata 300

atataatgtt aaccgccgtt aactttaaaa aggttttaac cgtccgca 348

<210> 478
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-A2

<400> 478

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gatgttgaag acctcctttt ggaggtggca gatgacttca ttgattcggt cacatctttt 120

gcatgtagct tggctaagca tcgtaaatca tctgtattgg agcccaagga tatattactc 180

cacctagaga aaaacttgca cttgacaatt cctggattct caagtgagga taaacgtcaa 240

acaaaaactg taccaactga tctccacaag aagcgacttg caatggtgcg tgcattacta 300

agaatcctca aaaccagaga cgaatgcaag caattccaag ggaaactatg anacaagcga 360

tggtgaancc aaatggtccc gaatcatctc ttaagaccct cc 402

<210> 479
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-G4

<400> 479

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agacaagaag agaaggagaa agacaaagta cttggggagc agtaattata ataacatcga 120

catcaacaga ttacaacgca agtctttctt cattaaccga gcttggcaag aacattgttc 180

aaactcgaga cagtttctga gtaatacttc tcagcatctg ggctactctt tgatctcgcc 240

gcatantcca agttgtcaat ggtttggaaa agctttgcgg tgagatcttt aaggctttgc 300

ttctcttcct taggcttaac ggagataacn gtgttgagat ngtaacggag gtacgatgcc 360

ccttaaaccg ggnattcgtt ccggaacaaa anggnccaaa gccttttttg nccgataaa 419

<210> 480
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-05-Q1-B1-A5

<400> 480

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tatttatgcc aagccagcca gacgcagacg cgccgagaca gaacttaatg ggcccgctaa 120

cagcgcgatt tgctggtgac ccaatgcgac cagatgctcc acgcccagtc gcgtaccgtc 180

ttcatgggag aaaataatac tgttgatggg tgtctggtca gagacatcaa gaaataacgc 240

cggaacatta gtgcaggcag cttccacagc aatggcatcc tggtcatcca gcggatagtt 300

aatgatcagc ccactgaccc gttgcgcgag aagattgtgc accgccgctt tacagggctt 360

cgacgccgct tcgttctaac atccgacacc aacaacgctg gcacccaatt tgatnggcgc 420

cgaagantta atccgcc 437

<210> 481
<211> 526
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B1-B4

<400> 481

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ctcggaattc ggctcgaggg tattttgata aactggcaan ttccanggnc acaaattgag 120

gctgtgacca atgacaactt gattatcaat gtatacaaca ccttggacna acctttcctc 180

ttatcttgga atggagtgct gcagaggaga aactcgtggc aggatggagt gtatggtacc 240

aattgtccaa ttctaccaag ggcataactt cacttatgtt cttcaagtga aggatcagat 300

atgtagctag ttctactacc cttcncttgc ttttcacaag gcagcangga ngttatggtg 360

gattcaaaat tgctaagcgn cccggggaat ccgagtgcct tttcctacgc ccagcaggag 420

atttcacata ttgncaggaa aactgggtac aangagaaaa tcacncagga ttttaagggc 480

cattttggg atgntgnaat tgacctttcc cttccctnaa ggggaa 526

<210> 482
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-B10

<400> 482

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nnnnnnnnnn nnnnnnnnnn nnnnnnccaa aagttcantg ctgcaacatt gaaacgaata 120

cacanaagga gaacagatta caataatgat gtaagaaaga tatataggtc ntaggttcnc 180

ttganagggt caaagttgga nacnccgacg acgacaccaa tgatgacagt gaggacnagg 240

ccaccanaan caatgctgag caanaaattc ttgagggaag gagaaattcc anaaccaagc 300

agcttcagct atctccggaa tcaccatcga agcagtaaga agcagccgcg ggaaataccg 360

ggtcaaagcc ttgtccanct tgaggggcct taactnaaac ccccg 405

<210> 483
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-040-Q1-E1-D8

<400> 483

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acagaaggag aacagattac aataatgatg taagaaagat atataggtct taggttctct 120

tgacagggtc aaagttggag acgccgacga cgacaccaat gatgacagtg aggacgaggc 180

caccagaagc aatgctgagc aagaaattct tgagggaagg agagattcca gaaccagcag 240

cttcagctat ctccggaatc accatcgaag cagtaagagc agccgcggag ataccggtca 300

aagccttgtc catccttgaa gggccttaac ttgaaacctc ctggtgctcc tgcctccaag 360

tttgcaaacc aaaagccctt gggatggntt tcagaaggta atgggcttaa aggaaaagga 420

gaacgaaacg gggtcctggg ttnaagttgg tgttgaccaa atgacaa 467

<210> 484
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-041-Q1-E1-D10

<400> 484

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acagattaca ataatgatgt aagaaagata tataggtctt aggttctctt gacagggtca 120

aagttggaga cgccgacgac gacaccaatg atgacagtga ggacgaggcc accagaagca 180

atgctgagca agaaattctt gagggaagga gagattccag aaccagcagc ttcagctatc 240

tccggaatca ccatcgaagc agtaagagca gccgcggaga taccggtcaa agccttgtcc 300

atcttgaggg ccttaacttg aagcctctgt gctctgcctc cagttgcaac caaagccttg 360

gatggtttca gaggtaatgg cttaaggaaa ggagac 396

<210> 485
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-G10

<400> 485

cggaaacagt gaggtcagag tatgatttct tcgacacgag gaagcaaaag cagaagcagt 60

tcgaatcaat gagaaatcag gtggaggaag agacggagac ggagagagag gaagtacagt 120

gtagtgaatg ggaggatcac gatcattaca gcaccacgag ctcctcggac gcagcggagg 180

aagaggaaga agatgatgat agagaatcaa tttccgaggt cgggacacgc tccgagtttg 240

gatctacggt gagaagtaat tcgatgagac ggcatcatca acaaccttca ccaatgccgc 300

aagtatacgg cggcgctgaa caaagtaaat atgataaagc agatgatgct acgatatctt 360

ctggtancta tagangcgga ggagatatcg ctgacatgaa gatngtaatt t 411

<210> 486
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-E8

<400> 486

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nnnnnnnanc caaaagttca ttgctgcaac attgaaacga atacacagaa ggagaacaga 120

ttacaataat gatgtaagaa agatatatag gtcttaggtt cncttgacag ggtcaaagtt 180

ggagacgccg acgacgacac caatgatgac agtgaggacg aggccaccan aagcaatgct 240

gagcaagaaa ttcttgaggg aaggagagat tccagaacca gcagcttcag ctatctccgg 300

aatcaccatc gaagcagtaa gagcagccgc ggagataccg gtcaaagcct tgtccatctt 360

gangggcctt aacttgaanc ctctgtgctc ctgcctcc 398

<210> 487
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-041-Q1-E1-G1

<400> 487

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ctgtttcaac aagaccaagt tctgaacaat tactcagcta gtagttttat catgcattca 120

aaatcttctc ataagcagaa aaacgtcata gatatcaaaa ctactaaagc aaaacatctg 180

cgaacggatg aatgattcgt gagatctcaa tctcacttct tcctgaaaga gcatccctct 240

tgtagcctcg ctttaccacc ggtgggctgg cacagaactg tctgacagtt tccacatacc 300

acaacagttt gagaatggct gaacacagtg gttatgttga agcatccctg acacttaaca 360

tccatgaaga aggagttggg agattgcacg agacgcttga 400

<210> 488
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-G11

<400> 488

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gatgaacaga tccaagagtt ttacgaagcc ttctgtctca tagacaaaga ttccgatggg 120

ttcatcacga aggagaagct aacgaaagtg atgaagtcga tggggaagaa tccaaaggcg 180

gaacaactgc aacagatgat gagcgatgtt gacatctttg gcaacggtgg catcactttt 240

gatgatttct tgtatattat ggctcaaaac acttctcagg aatcagcatc ggatgagtta 300

attgaggtat tcagagtgtt cgacagagac ggagatggtc tcatatctca acttgagttg 360

ggaaaaagga atgaaggnca tggggataag ataac 395

<210> 489
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-G4

<400> 489

aggtgaaatc gaaaaaaaaa gcgagatctt cttctctaat ggcgacgacc ttaagcagag 60

atcaatatgt ctacatggcg aagctcgccg agcaagccga gcgttacgaa gagatggttc 120

aattcatgga acagctcgta agtggagcta caccggccgg tgagctgacc gtagaagaga 180

ggaatcttct ctcggtcgcg tataagaacg tgattggatc tcttcgtgcg gcatggagaa 240

tcgtgtcttc gattgagcaa aaggaagaga gcaggaagaa cgaagaacac gtgtcgcttg 300

ttaaggatta cagatctaaa gttgagactg agctttcttc gatctgttct gggattctca 360

ggttacttga ttcgcatcta attccttcag ctactgccan tgagtctaan gttttttacc 420

tga 423

<210> 490
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-C10

<400> 490

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cggccgccct nttttttttt tttttactca tacgacgcaa tgacatcatc aagcatccac 120

atatccacct cggaaacgga ctcatcaagc tgactcggtt gctccgcggt gttaccgtcc 180

agggcaagga acgattccaa gctcgatatc tgctgtttca gatcataatc cggctcaaat 240

ccgtaactca ggttctgaaa ctcgtcccca tttccaaatc ctatacactc caccgggaaa 300

ctcggctgac ttaactcgct ctcactctga gagacaacgc agaccttctt cgccggaggc 360

tgatcggttg atcgtggcga tgacggngga ggagtataat taggaggang aggatggtgc 420

aaatctggga agttgagctt ggctttatca canggntttg cttgggcgca anatcataag 480

cc 482

<210> 491
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-E4

<400> 491

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naccggcagt gtcccacccg taatcaccgg ggaactctcc agtgaggtag ctcggaggct 180

caccgganaa tggncccaag tacttgacta ggaacggagt gaaattcgga taancggttt 240

ggttcaangc tggttcacaa atcttcancg acggangatt ggnctacttg ggcaaccccg 300

aagcttggtc cangctcann agcatcttaa ccatttgggc tacncaagtn tacctcaagg 360

gganctgttn aggggctaca aangtccccc ggganatggt ccaatnggga aaaagcaaaa 420

ggg 423

<210> 492
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-E8

<400> 492

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agatttaaga attttcttac ttttgttcta gttttgttga gaaaaagatg catccgatct 120

tcgatgccat ccttcaaaat gaccttccag cttttcttgg tttggtggaa gcgagagaat 180

cttccctgga ggagagaagc gaggaacaga acaccaacaa cacggttttg cacgtagctg 240

caaagctcgg tcaccgagaa ntggtcgcca agattattga gctccgacct tcccttctct 300

cttcccgtaa cgcgtacgga gacacacctt tgcaacttgc tgctcttctt ggagacgtaa 360

acatagttat gcaaatgtna agacactgga ttggaactat attccgcacg 410

<210> 493
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-F1

<400> 493

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caaaattgga gaaaccaaca ggcaagaaac agacagcgac ggttgttgtg ggagtgttgg 120

cggtgggatg gctggcgata gagctcgtgt ttaagccatt gttcaagaag ctgagctcct 180

ccaaggacaa atccgattcc gacgatgcca ccgtccctcc cccgtcgggc gcctgaatat 240

ggtgagtgag aatttaacaa agcctctgcg ggagacacgt gtgttgaagc tcattttatt 300

agcaaatcct ggtgtttcct tttgtaataa ccgttccgga cttttacgta ctgctttgat 360

gatgtccctt ttttaaatta acccccccctt tnaaattaaa atcccgacaa ggntaataa 419

<210> 494
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-18-Q1-B1-F11

<400> 494

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cacctatcct caccattcat catcgacacg tggctggttt aactcaaatc aacggaagaa 120

gatgacgtct gacggagcaa cgtcgacgtc agctgcagct gcagcagcag cgatggcgac 180

gaggaggaaa ccgtcgtgga gagagaggga gaacaatcgg agaagagagc ggcggagaag 240

agctgttgcg gcgaagattt atactggtct tagagctcaa ggtaactaca atcttccaaa 300

acattgtgac aacaatgagg ttcttaaggc tccttgttct gaagctggtt gggttgttga 360

acaagacggg actacttatc gcaagggaca caagcctcta cctggtgac 409

<210> 495
<211> 388

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-F6

<400> 495

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tcttccgacg ataaagatta gaagacatga anaacggtaa ccggaaaaca acgccggaaa 180

caganaagtc tcaccggaga aagttatcag agaaagcgat gtcgtttcac ggcagaggaa 240

caacgccgtt atcaaatcca ggcgaagctt cgaagaccga aaacgttacc ggagttattc 300

tccaccggtc aaaagcatca ccgtnccgga gacggtttca cttccgccac gtttgacgaa 360

acttttactt aacgtgacgg tacaanga 388

<210> 496
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-G1

<400> 496

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nanaaaatna nttgctttgg gtgttgtggn gaggatgatg atatgcataa aactgctgat 120

tanggaggtc gtcataacca agccaaacac tttcctccan gaaatgatgc aaggcaccac 180

caagcctctg aaactgcaca gaagggtcct ccagttgtga agttgcagcc tattgaagta 240

cctattatcc cttttagtga actcaaagaa acaactgatg attttggatc gaattctctc 300

atcggtgaag gctcttatgg aagagtatac tacggggtat taaacaatga tctgccttca 360

gcgattaaaa agttggattc taacaaacag ncctgacaat gaaatccntg ctcaggt 417

<210> 497
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-18-Q1-B1-G5

<400> 497

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aaatgagttg ctttgggtgt tgtggggagg atgatgatat gcataaaact gctgattatg 120

gaggtcgtca taaccaagcc aaacactttc ctccaggaaa tgatgcaagg caccaccaag 180

cctctgaaac tgcacagaag ggtcctccag ttgtgaagtt gcagcctatt gaagtaccta 240

ttatcccttt tagtgaactc aaagaancaa ctgatgattt tggatcgaat tctctcatcg 300

gtgaaggctc ttatggaaag agtatactac ggggtattaa aacaatgatc tgccttcaag 360

cgattaaaaa gttggattct aacaaacagn ctgacaatga attccttgct cangt 415

<210> 498
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-G6

<400> 498

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atggctcgta ctaagcaaac agctcgtaag tctactggag gaaaggctcc taagaagcag 120

cttgctacaa aggctgcacg taagtctgca ccaaccactg gaggagtcaa gaagccccat 180

cgttaccgtc caggaactgt tgcactacgt gaaattcgta agtaccagan gagtaccgan 240

ttgctgatna ngaagctccc tttccaaaag ntaattcgtg aaaantgncc aagatttcaa 300

gactgacttg cgtttccaaa nccaatgctg ttgccttgna ctccaaggan ggctgctgaa 360

agcaaaaccn tgtgggtcnc cnttgaggga aactaacctc tgggccatcc aagccaaa 418

<210> 499
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-G7

<400> 499

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tcacggtggc gtcgacgtcc gggcaacaac aagctctctc gagaagaaag cnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntgttcga gctcctgcgg 180

cgaagaaacc gagtccggaa tacccatttt ggcagcagaa ctggtttatc ggtctgctat 240

tcgtgatggc tttaggattc ttctgtctcg ctatcttcct ttacctaagt ctcgatcctg 300

attccggtta cacgtctgcc tccgccgctg cttctggtaa agaaggtgtc gagattactt 360

atggaagtgc gatnaagttg atgcacgaga aaactaaatt tcgattacan tc 412

<210> 500
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-G8

<400> 500

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aggtcaaaat gtcaatggag aagccacctt tggcctccgg tttagctcga acacgatcgg 120

agcagctata tgagacggtt gcagcagaca taaggtcacc tcacggctcc atggacgcta 180

atggtgtgcc tgcgacggct ccagcagccg ttggaggang aggaacgttg tcgaggaaat 240

caagccngan gttgatgggg gatgtctccg gggaaggagt aacngcgccg ggacacacat 300

aagggaatcc aaggaccgct caacntaaac tccaagctaa aaggaaatta antaaccggc 360

gcaacntttg agcccttgcg tccaancgca tccgctccgg cctttcaatt ttcccttcaa 420

cngggg 426

<210> 501
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-G9

<400> 501

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atcaatgtga ggaatacgat agaccgggca gactggagta atcgccaacc aactacaaca 120

cctggaagaa caccgaccag tgcaacacct tctggaagga cacctgctct gaagaagcca 180

aaggcaaacg aaccaaataa aagagatatg acgtatgagg agaagcagaa gcttagtggc 240

catttgcaga acttgcctcc agataaacta gatgcaattg tacaaatcgt taacaagagg 300

aatactgcgg tgaagctacg ggatgaagaa attgaagttg atattgatag tgttgattca 360

gagaacctgt gggganttgga caaatttgta ncaactataa aaagggct 408

<210> 502
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-H2

<400> 502

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acggaggatt ggactacttg ggcaacccga gcttggtcca cgctcagagc atcttagcca 180

tttgggctac tcaagttatc ctcatgggag ctgttgaggg gctacagagt cnccggagat 240

gggtccattg ggagaagcan aggacttgct ttacccaggt gggagcttcc acccattggg 300

cctcnctact gaccccgaag ctttcgcgga gttnaaaggt gaaagaactc aaagaacggg 360

aaaggttggc taatgttccc caangttttg ggattccttc cttcaaggcc aattgtnaac 420

cgggaaaagg gga 433

<210> 503
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-H7

<400> 503

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tcagagatcc accatctctt tccgtcgaca gggctcttcg ggtatagtct gggacgatcg 120

tctcatcgcc gagctaagcc aacaagcggc caacgaccgg aaaggcgaga ctctacanca 180

ggacgaacan gccaagctga ttacgtcgga agtacaggat cagacaacca aacctatcgc 240

cggagaagga ctcaaaccta tcagaactga cggaggtatg gagaggagtc gattcaacgg 300

aggangagcc atccgccacc atcgaaacac anggagagtg tctccggcgg tggacccgcc 360

gtcgccgaaa ctgtcggcgt ttgggtgctg ctctgccttc gggaaaaaac aacc 414

<210> 504
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-04-Q1-B1-A9

<400> 504

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agattactaa aaacagagga aaaacagagt aaagattact caagagtcaa gagctggttt 120

gatcttaatg ggaaacatct gtcctggctc tggatcttcc actgttaacc acgaacctgt 180

ctccaccaaa cccctcccag tgagacgtgt gcagacccca gagaataaaa agtttcctcc 240

gccgctggtg gcgatgccgg cgttacatcc cacgtttcca ctgccggaaa caggacataa 300

actgagaccc gccgctaccc cgcctcgtga aaaaccgcaa cataggacga cgagattcgt 360

cgagaaccac tcgtgaaaaa acgcaggaga aa 392

<210> 505
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-04-Q1-B1-B9

<400> 505

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aaaggagaaa agcaaaaaaa gccagatcac aatctcaaac tcgcttcttc ttcttcctca 120

ctctcttatt aggttcagtt cnntttcgat tcttcgtgtg gatcgctgtc ggtagatttc 180

cgatttcntt aggttctgcn cgaaatcgtg gtttaagtgt ttattatcat ngattcagaa 240

aacggtgggt aaacttgtag cggaagatga ngcggtggcc ggtggntnac cggcggcgag 300

gtagaangag attgtcgaag ttgggatatg gtttctcctt ggntctttcn ctgncnctgg 360

tttaanttct cgtcatcgtt caagcattnt caccatnaag aaggattcng ccccaagntt 420

tttacttgag gagaggacac tngga 445

<210> 506
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-04-Q1-B1-C12

<400> 506

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gctgttgact cgcacagaaa ggcagctgct gctactgctg ctggtaaatt caaggatgag 120

atcattcctg ttaagaccaa gcttgttgac ccgaagactg gtgatgagaa acccattaca 180

gtttctgttg atgatggtat ccgaccaacc acaactcttg cttctcttgg gaagctgaag 240

ccagtgttta agaaggatgg caccactact gctggaaatt ccagccaagt aagtgatggt 300

gcaggagcgg ttctcctaat gaagagaagt gttgcaatgc aaaaaggact tcccgttctt 360

ggtgtattca aggacatttg cctgcaattg gtgtttgacc cctgcaatca atggggtatn 420

<210> 507
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-04-Q1-B1-D12

<400> 507

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actgtttttg ggtctgcttc aattgcagtg gaagagatgg tgttcttgag ttggggccgt 180

ccatcttccg agcaacagca acaagtcatc aacaaaacag gaaccttcaa ttatgacaac 240

aagtacagag gagtttcgtc taggtctatt gctaaactta aggaagattc agagattgat 300

aaagatggat tcttgatcaa tcatgctccg tgttttaatc ggttctgggt agagagagtt 360

atgaagaang gnaaaaaagc tcctccaana attgggaagc 400

<210> 508
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-04-Q1-B1-E10

<400> 508

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gatttgcaat tcgatcttct atgccttcat tttgtggagc taatctgtgc tgggaactgc 120

accgaagctc tcaaatttgg taagacaaga ttggctcctt ttgggaaggt caaaaaatat 180

gtagaaaagc ttgaagacgt aatggcattg ctcgcttatg aagaccctga gaaatcccca 240

atgttccatc ttttgagctc tgaataccgc caacaagttg ctgataatct gaaccgcaca 300

attcttgaac acacaaacca cccgagctac acaccaatgg aaaggatcat acaacaggtg 360

acagttgtga gacaatactt gactgaggag aatggcaaag atgcgtttcc cccaatcctc 420

tccgaaagga tcccccaaaa gggntaaaat tgca 454

<210> 509
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-04-Q1-B1-E9

<400> 509

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aatttgccct catttccctc tgattagatc ccttaccccg acaaagacac caaaattctt 120

gagggcgaga gagctgattg atgtctttgg tatctggagc cagggacatg gggttnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnggatg gagatgatga gaactcctcc tccagaacaa 240

gagccgacga cgatgctctt agtcgacaag atgagcgaat cttctctttg tgctaccgag 300

gaggaagaag acgacgattc caaattgcaa ttgggtcctc agtacactat caaagaacat 360

ctccgagaaa gncaaaggat gatnagaatt ccgaagga 398

<210> 510
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-04-Q1-B1-H11

<400> 510

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tgtgtgaaag gtgaaaagct tatctcccaa gactgcaaga aagtcaaggc aaccactaac 120

gtatggcttc aagttgaagg tcaacagttt gaccctaacg cctctaagct tgccttcgag 180

cgtgtcttta aaggcatgtt cggcatgacc actgaccctg ccgctgtcca agagctcgaa 240

ggtaagctcc agaaagtctt ggatgtctac gaggctaggc tcgccaaatc tgagttcttg 300

gctggtgatt ccttcactct tgctgatctt caacacctcc cagccatcca ttacttgttg 360

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aaaa 424

<210> 511
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-06-Q1-B1-A12

<400> 511

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aagttttcag agcctcaggt taaatgttat atgcaacaac ttctaagcgg gcttcatcat 180

tgtcacagtc gtggtgttct gcatcgtgat ataaagggct ctaatctact gattgatagt 240

aatggagtct tgaanattgc anattttggg ttagcaacgt ttttcgattc acagaactgc 300

gttccattaa ctagccgtgt tgtgaccctt ggtatcgacc cccagagctt ctacttggga 360

gccttgtcat taaggtgttg gggttgattt gtggagcaca aggctgtaac cttaa 415

<210> 512
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-06-Q1-B1-A9

<400> 512

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tctctgtact aactcttgcc ccattggctt tctccgagat cttcttagag gagcatttcg 120

aaggtggatg gaaaagtagg tgggtcttgt ctgattggaa aagaaacgaa ggcaaagctg 180

gaacctttaa gcacactgcc ggtaaatggc ccggcgatcc tgacaataaa ggtattcaga 240

cttataatga tgccaagcat tatgcgattt ctgcaaagat tcctgagttt agcaacaaaa 300

accggactcn tgttgtccaa gtactcaatc aaagaattga acaagacaat tgaangtggg 360

tggtgcntan attaaacccc ctggtctggc nangttaacc agaagcaatt ttgggggggn 420

gataccccat a 431

<210> 513
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-06-Q1-B1-C11

<400> 513

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cggctcgagg ttaatatgtc taaagagaaa tcatatgtaa ttgctcttct tctatctttg 120

cttctctgtc tttcttttca agttggtgtc tctgaggnna actacaacgc agttactaca 180

aggtactcgg attctcctcg atgcgccaat ggatcttctg caagtccacc aacaagacac 240

tgtccaaggg ggcgtccccg tcctcctaca ccgagagtag cggtgcactc taactcaacc 300

aaaggaaaag gcccataagt gatgaaatta ttttatgtct caacactatg atttttgtat 360

ttaagtttga tgtaaaattt acagggcaaa gagattcaat ctttgtaaat cagatgatta 420

cattnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngggcg 480

gccgccc 487

<210> 514
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-06-Q1-B1-D10

<400> 514

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gtacaatggg ttctgcattc gatccccttg tcacggccac tgaggatctc gccgccgtca 120

actcggcgcc gccactctca aacctcacgc aagaagaact caagaaaatc gccgcttata 180

aagccgtcga attcgtcgaa tctggaatgg ttatcggtct cggcactggc tccaccgcga 240

aacacgccgt ggctcgtatc agcgagcttc tccgagaagg aaaactcaag gatataatcg 300

gaatccctac ttcaaccaca acgcatgagc aagcggtgtc tctanggata ccattatccg 360

atntagattc gcatccggtg gtggatctat caatcgatgg cgccgacgaa gtcgatcggc 420

tcttaatctg gtgaaaggac nccgcggatt gttantgaaa aaaaa 465

<210> 515
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-06-Q1-B1-D12

<400> 515

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aattcggctc gagcaaagtc tcatttctcg ttaatttcca ttttcgttat ctctctctct 120

cgccgatcaa accctaggtg tatcaattcg ttcagattcc cggcggttgg tctcactgtc 180

atgtaggttt gattcatctt ctcttctgga tcttgagtga cgaagagaga agagatctga 240

gtttttctga gagagagatt tttctccctc gttgacccga tcagtttttt ttcgtcgctg 300

gggattttca aatttttttt gagggatcgg ttttgatttg ttacgtagat ggcggattct 360

tcacccgatt cgtgtttcaa aggaggcaaa tttagtgctc caaggtttcg atttcatcca 420

actgatgaag agcttgtgat gtattaattg aagaggaaga tttgtaggaa gaggcttaga 480

g 481

<210> 516
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-06-Q1-B1-D9

<400> 516

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actccgatag aatcgaacta cagggcttgc accattcctt atcgattccc ttctgataat 120

cctagaaagg ctactcccac tgagatctcc tggatcgatc tcttctccaa ttccatccct 180

tctttcaagg aacgtgcaga gagcgataca accgttccag atgctcctgt tcgagctgaa 240

aagtttgcca aaaggtatgc ggagattctt gaggacctga agaaagattc ggagagccat 300

ggtggtccac cggattgcat tcttctctgc agaattcgtg aagctgatac taaagagaat 360

tgggatttaa ggacatattt aagaaagtta anggatgagg agaatgcaaa gggnaatttc 420

acta 424

<210> 517
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-06-Q1-B1-E9

<400> 517

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ccagcgggta ctccgaagac cgtccttcta ggtagaccta cggatccagt attctttaag 120

agtaaatcgg attacgtcaa aaagccaatc cccaaagaag gactggagaa gatttggaag 180

acaatgttga aattcaacaa tattgtgtgg ctgcacttca acccttacgg tggaatgatg 240

gatcggattc cgtcaaacgc cacagcgttt cctcaccgga aaggaaactt gttcaaggtt 300

caatacnata ccacatggtt ggacccaaac gccacagaga gtaacctgag tattatgaag 360

gagctcctac gangtttcaa naaccgtacg tgtcaagtaa cccgaaaaaa ggccttcntt 420

aa 422

<210> 518
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-06-Q1-B1-F11

<400> 518

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atcgcagcca tggcggaaaa agctgtcact atcaggacca gaaacttcat gaccaacagg 120

cttctcgcca gaaagcaatt cgttattgat gttcttcatc ctggaagagc caatgtttca 180

aaggctgagc ttaaggagaa attggcgang atgtatgagg ttaaggaccc aaatgctatc 240

ttctgtttca agttcaaaac tcactttgga gggtggtaaa tcctcctgga tatggnttga 300

tcaatgatac tggtcaagaa cgcctaagaa attttgagnc caannttaan acttatcaag 360

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anaacaaggc 430

<210> 519
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-06-Q1-B1-F12

<400> 519

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ctaagcaaac agctcgtaag tctactggag gaaaggntcc taggaagcag cttgctacaa 120

aggctgcacg taagtctgca ccaaccactg gaggagtcaa gaagccccat cgttaccgtc 180

cangaactgt tgcactacgt gaaattcgta agtaccaaga agagtacccg agttgctgat 240

caggaagctc cctttccaaa ggntagttcg tgagattgcc caagatttca agactgactt 300

gcgtttccaa anccatgctg tgcttgcact ccaagaagct gctgaaacat aacttgtggg 360

tccccccttng agggacacta anctctgngc caatccatgc caaagcgtgt ngaccaataa 420

tgcccaaaag 430

<210> 520
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-06-Q1-B1-G10

<400> 520

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tctnagaant cacancancn cngtcncatg atcatattag caggaggacc aaacacacnn 120

gactcaatct tctcacttct cactccctcc tccgtagaat ccgccacaac atcattcaac 180

actcacaatc ctccgccacc gccgcagctc gggtcctccg tctatctccg ccaacgagat 240

atcatcgaga agttccacct tcagaacaga gcaatctcca ctcctcatcc tcctctgttt 300

tcctcaacgt acgatnatca tcaaacttcc gagctaatgc tccaagcggn ggccgggtct 360

ccanccgccg cnttcgccgc tgcgttagcg gctgggangg tgacgaaaaa gaaganactt 420

tacagtggat gaggcataag aca 443

<210> 521
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-06-Q1-B1-G11

<400> 521

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tcgatgagag ctccggcgag gaagagttac atattccggc gtttgtgaac cgtgttcccg 180

ccaaggttct gccgccaggt gtgttcgata aactctctta cgggtctctg gtcaaaatcg 240

gcgagcgatt acatgaagcc aagggtattt tggttaattc atttacccaa gtggagcctt 300

atgctgctga acatttttct caaggacgaa gattaccctc acgtgtatcc tgttggggcc 360

ggttctcaac ttaacggggc cgtacaaatc cgggtctaac ttcggcccaa tataaaagag 420

a 421

<210> 522
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-06-Q1-B1-H10

<400> 522

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ttatgagcct cttgcgataa gacgcgcctt tgaaaacgct gtgattaagc ggttgatgac 120

tgatgttcca tttggagttt tgctctctgg tggtcttgat tcttcccttg ttgcctccat 180

cactgcacgt cacttggccg gtactaaggc ggctaagcaa tggggtcctc agctccattc 240

cttttgcgtt ggtcttgagg gctcaccgga cttgaaggca aggaaagagg tggcggaata 300

tttggggacg gtgcaccacg agttccactt ctcggtgcaa gacgggattg atgccataga 360

ngatgtgatt tancaagttg agacctatga tgtgacgact atcaaagcga gcacaccg 418

<210> 523
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-A1

<400> 523

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aacagaagct gcagctagag ccaaagaatc tgcaaaggat atcataaatg tgaagccatt 120

gatcgacagg aaagcttggc catatgttca aaacgatctt cgttccaagg cttcttatct 180

tcgttatgat cttaacacaa tcatttcctc caaacccaag gatgagaaga agtcactcaa 240

ggatctcacc accaagctct tcgataccat cgacaatctg gattatgcgg cgaagaagaa 300

gagtccttcg caggctgaga agtactaagc tgagacagtc tccngcnttg aacgaaattc 360

ctgccaaacc tggggtaaan catttaantt ctgcattttt cctgtaaatt aatatcct 418

<210> 524

<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-A10

<400> 524

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catattgaga acaaatagat ttggttatat atggctttta cgcacgtttg tttatggacg 120

ttagtcgcct tcgtgctgac gtggacggtg ttctaccttа ccaacatgaa gaagaaggcg 180

acggatttgg ctgatacggt ggctgaggat caaaaagacg gtgctgctga cgtcattatc 240

gtcggggctg gtgtaggtgg ttcggntctc gcatatgctc ttgctaagtg tgcgcctgna 300

agaaggaacg gtgaagtctt tactagaaga aaaaggagtg gtcaaangga gtgacataca 360

agaataatga angcgaanaa ncaacagcct tgggcacctc tcactgtggn aagcgacggt 420

tgctactcaa accnttcgtc cggtctctta atgaangaca acaattgct 469

<210> 525
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-A12

<400> 525

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agtcggaaag aaaccctaaa gaagaggatt atgggtgctg tatcgatgga gtcgcttcct 120

ttaggtttca gattcagacc taccgatgaa gagctcgtca atcactacct ccgtctcaag 180

atcaacggac gtcactccga tgtccgtgtc atccctgata tcgatgtctg caaatgggaa 240

ccttgggatc ttcctgctct ctcggtgatt aagacggatg atccagagtg gttcttttтc 300

tgccctcgtg atcggaaata ccctaatggt catcgctcta acagagcaac tgactctggc 360

tattggnaag ctactgggta aagattcgta ncatcaaagt ctaagaaaga ctttaa 416

<210> 526
<211> 406
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-A2

<400> 526

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tactggtgag gtttatcctt tggattctga agttagggtt tgtgatgagt gtacaactgg 120

tgatgttgcg actgttgagt tgagggaagg agatagtatt ttgatcaatc atacgactgg 180

gaaagagtac aagcttaagc cgattggtga tgctggacca gtgattgatg ctggtggtat 240

atttgcttat gctaggaaag ctggaatgat tccatctgct gctgcttgat tttgacttca 300

agtgtcaatg gaaattcaat gagagtcacn tcaagggttc ttgattcaat aatnanaata 360

agttaatgtt tccaaaaacc taataaccta atccaagttt tatgaa 406

<210> 527
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-A4

<400> 527

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngtcag accctggatc caaagataac 180

gacattaaca acatccttat cggtctttat ggatcccaat atagatacaa ggaaatgcgg 240

cagatcataa ctcccgtagg caggaagcaa ctggaaccga tgttacaaag ctaccgcaag 300

gttgtgggcg ctgagctttc aaanagaatg gtgtnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnna 408

<210> 528
<211> 363
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-A6

<400> 528

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ctgttccccc tgatccgaag cttggctctc cttttccaag cactactacc actacttcag 180

agaagagcag tgtcaagcag agccataact aatatgttct cttctacctt ctttctgctc 240

cctaaagcaa tgcgttttga gtctttatag atttgatgtt ctctaaaact gttatgatat 300

taacatctct aagcaaaaaa tatgatcttt tgtctcaaaa nnaaaaaana aaaaaaaggg 360

cgg 363

<210> 529
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-A9

<400> 529

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cagttactcc tactggaacc aaaagctcag aaccttaaaa catggagtct ctatctcttc 120

ccgttctaaa tcctctgtta gcttctggtt ctaatctttt tagaaaccag cactcgagga 180

tgacctcttc aatggtatct tcacttaaat cccccattgg aggcacatcg ctctccactg 240

ttcgtcgctt tggagtangt gttgttagga tgcaagctgt tgatgaagat attgatttga 300

agcaaatgag agacatagct gctgctaaaa agcgttggga tgggttgtta agggaangga 360

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cccntgaagg ttcgtccctc caacgaaggg ca 452

<210> 530
<211> 108
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-B1

<400> 530

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tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnn 108

<210> 531
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-B10

<400> 531

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cgagcatttt ttaacaggaa atccaagtgg gaatgggacc tgcaggagag ctgcgttacc 120

cttcgtaccc cgagcaagaa gggacatgga agttcccagg gattggagcc ttccagtgct 180

atgataagta ctcgttaagc agcttgaaag cagcagctga gacttatggg aagccagagt 240

ggggcagtac tggcccaacc gatgctggtc actacaataa ctggccagaa gacacccagt 300

tcttcaaaaa agaaggtggt ggttggaact cagagtatgg agatttcttc ctctcatggt 360

actcccagat gctgttggat nacggcgaag cggattctaa cctcaagcca aaatcaatat 420

tcgaaaacat tgggtgtcaa aatatcggtc aaaatcgctg gaatccactg ggcacta 477

<210> 532
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-B12

<400> 532

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aaacaagaaa tcagacaact ccttgtctcg agacacatta caaatcaaaa aaagaaaaaa 120

aaccacgatg gctcaaaatg gttcgaatac tactgtgaag ctgataggga catgggcaag 180

cccattcgct ataagggctc aagtggctct acacctcaag tcagtagagc acgagtatgt 240

cgaagaaacc gatgttctga aaggaaagag cgatcttctt attaaatcca accctataca 300

caagaaagtc cctgtcctca tccatggtga tgtatcaatc tgtgaatctc tcaacatcgt 360

ccaatacgtc gatgaatctt ggccgtctga tctttccatc ctcccaacac ttccctcggg 420

aacgtgcctt tgccgttttt ggggctcact tcgttgacgg naa 463

<210> 533
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-B3

<400> 533

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tttctaaaag cattcaatgg aacatttgag ggtataactc tacctgctct tcagaatata 120

caatcagcta tcatcaaagc tggtttagcg actcaggtga aagtcacagt gcctcttaac 180

gcagatgtgt accaaagtgc gtctaatctc ccttcggatg gagatttcag gcctgaaatc 240

cgtgatctca tgttgaacat tgttaagttt ctgagtgata acggagcacc attcactanc 300

aacatttacc ctttcatcag tctctacaac gacccgaant tccctgtgga gtttgcttct 360

ttganggnac tgggtactcc cgataaacgg acnatgggaa gaatcctacn aacaat 416

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<213> Arabidopsis thaliana

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<400> 534

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agcgcaacgc cgagcttgat tcggagaagc gtttataccc cggaggcaag ttctttgacc 180

cgctaggttt agcggctgac ccggagaaga ctgctcaact tcagttagct gagatcaagc 240

atgcacgtct tgcgatggtc gccttcttgg gattcgcggt tcaagcggct gcaacaggta 300

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nataaccttc tcctcaacct taanatcaat aacaatgtga naatcc 406

<210> 535
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 535

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gaagatttta ccagtcagag gtatatatat atagagagag agttatggat ttggatcaat 180

ggatttccaa ggttaaagat ggtcagcatc tctccgaaga cgagcttcag cttctctgcg 240

aatacgtgaa agagattctg attgaggagt caaacgtaca gcctgtaaac aagtccagtc 300

accgtatgtg gtgatatcca tggncagttt catgatctta agaagcnttt tcagaccgga 360

ggtcatgttc ccgacaacaa ttacatttta atgggggact cgtggataaa ngttac 416

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<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 536

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agtatattaa cgtattcaag aaacagcact tacttcacca atctcaaaac acttttgtcc 180

tctctctctt cccggaacgc ttcatactct accggattcc aaactgccac ggcgggacaa 240

gctcccgacc gtgtcaccgg gacttttcct ttgtcgcgga gacgtctcac aaagaagttt 300

gccgtaactg cgtcgccttt tcccgtcaaa gnagacttaa aatgggngtc cgtanaacaa 360

aagaagtcng tggccttaat acgangagtt gt 392

<210> 537
<211> 422

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 537

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tgagaagttt aatttanatt aaacaacaaa aagatgggtt actggaattc naaggttgtt 180

ccaaaattca agaagttatt cgacgaaaaa tagtgctana gaaggctgct gctgctgaag 240

ctaccaagac ctttgatgaa tctaaggaaa caatcnacaa ngaaattgan gagaaaaaag 300

acagaactcc aaccaaaagg gtcgttggaa anctatgaaa ncaacntctg gcagaaagtc 360

caagggnttt gggtgaaaag accctaaagg tggctgggtt tgaaagaaaa actcaaccgg 420

ct 422

<210> 538
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 538

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ggagcagctt cnccnccgct tctctttctc agcgtctcgc cgtcccgaag ggcatctccg 120

gtgctccttt cggtgtttct ccgaccaaaa gagtctcttc cttcactgtc cganctgtta 180

aatccganan gacaacattc caagtagntc aaccaatcaa nngtgatcca ttcatcggaa 240

gtttggaaac tcnggtgaca tcaagcccat tgatcgcgtg gtancnttcc aacctccctg 300

gataccgtac cgccgtcaan cctctcctcn gcggtgtgga aatgggcctg gcccatggnt 360

tcttcataag tgggcccatt cgtcaaaagc tggc 394

<210> 539
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-H10

<400> 539

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tctagcagag aagattaaag aaaccccccaa agtccagctt atactaaatg ggtcatgata 120

ncatcacaaa gctcgggagt ctactcgtaa agctacacaa aggtccttca agttggcttt 180

gtcttcatcc tcgaccagac cgaaccagca acggcggacg aatcaagctc gtcagatccg 240

acggttcttt acaagtctac gatcgtcccg tagtagtctc agagctaaca aaagacttcc 300

caaaacacaa aatctgtaga tcagacttac tctacatcgg acagaaaacc cctgttctgt 360

ctgaaaccga aacacttaag ctangtctca a 391

<210> 540
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-H11

<400> 540

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ctcaaggatc tgacccatag attgagtagc ctcaggcttg gaggtgaata gaaacaaccg 120

gagacgcgaa ggtttggtgg aattggaagc ggaaatggta cggtcatact ctgttaaaag 180

cgccaagcaa cagcaacctc caccgccgca gcagcaagaa caacagcaag gaggccaaga 240

tgtgaactgc ttaccggatt ctccgatgtt agatacatcc tcttctttcg gctccacttc 300

ttcgtctccc tcgctcgcca atttgcctcc gatncgtgtc catgtanagg aacaagcgga 360

gtaangactt tgccaaatta naagaaatct gg 392

<210> 541
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 541

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cgtttaaacc atcgattcca aaaagcttgt tacttgacgg gaagcatacc attgaatcgc 180

attttatcct cgttaatcac caaatgaaac agatcagatc agctctagcc attgcatctc 240

ttcttaatcg tacactggtg atgccaccaa tatgggtgca ggttagatag gctttgggtt 300

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tcatgtcntt gaggtcaata tcatgcttaa gggagctanc 400

<210> 542
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 542

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tactaatccg acccttttcca ttgatcgcat tgacaagtca catgctaaat ggaagcgagc 120

tgacattctt gtctttaaca ctggacattg gtgggttcat ggaaagaccg ccagaggtgc 180

aggaaaaact actacaaaga aggtgactac atctacccga aatttgatgc tactgaagca 240

tacagaaggt cgttgaagac ttgggcaaaa tggatcgatc agaatgtgaa tcccaaaaag 300

cagcttgtat tttatcgcgg atactcctct gcccattttc ggggangtga gtgggactcg 360

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ctaacccttt gaaaaatgaa a 441

<210> 543
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-11-Q1-B1-A3

<400> 543

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ctgttgacag tatgcagaca agtaatgctg gagggtctgt gtcaatgtct gtcgataaca 120

gtagcgttgg ttcgagtgat gctcttattg gccatcctgg tttgaagcct atgcgccatc 180

cctactctct ctcggatggc caaagcgtat ttcggccagg aaaagttact catgcactta 240

acgatgatgc cttagcacaa gcgttgatgg atagtaagta tccaaccgag ggactggtga 300

actatgaaga gtggacaata gatctgagga aactacatat gggtcctgct tttgctcaaa 360

ggggcttttg gaaagtttat acagagggac ttacaaccgg agaaaatgtt accattaaac 420

tactcnaaaa gtcaaataac aancctgaaa aggnacaagc cctcgaacaa ca 472

<210> 544
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-11-Q1-B1-A4

<400> 544

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aagcgcaagt gtgtataatg acttaaagag agctcctgtt actccgagtg atagatagtc 180

tacaattata tcttactctg agtgaaagca atggcgtacg gtggtccgtc catgaatcca 240

ccggctttga gtggagctgt tcccgggtct gctaatctga agcaagtgaa attggagaga 300

gaaagcgagc tcaggatcga agtctctgaa gagcctctca aactccgtgt gggtaacggg 360

aacgctgaaa tttttggctc cgaactgcct cctgaaatat ggcgtacctt 410

<210> 545
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-11-Q1-B1-B10

<400> 545

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atcgaagctt ggtgtgttta tactatgaag agtcaatggt ctaattttca tcagattggg 120

agaaactctt tcttagctgc ttctactgtt tacgtttcaa acgaattcaa cttcttaaac 180

acttctcttc ttaatcgaag aagcttctgt tttgcagaag gagatcgatc cagctttgta 240

gtgttgaaat cggaagcaga gttcaacagt gcattgagta aagctcgaga tggatctttg 300

ccatcggttt tctatttcac tgccgcatgg tgtggacctt gcttatctct cctgtgatat 360

tggagctcaa gtaataaata tcctgatgtt acaacgtata aaggncga 408

<210> 546
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-11-Q1-B1-B11

<400> 546

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agagaaaaag aagagagaat gctctcagtc tcagcctctc ctcaccacca ctaaccccag 120

aagaatcctc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn acaacactag aggaatgggt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

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tttcccgccg tttcctcntc tcgtctcaac gg 452

<210> 547
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-11-Q1-B1-B12

<400> 547

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agatgcttac agtcatgatg aacctatcat cagcaatgca tcttgcacta ccaactgtct 120

tgctcccttt gtcaaagttc ttgaccagaa attcggtatc ataaagggta caatgacgac 180

tactcactct tacaccggtg accagaggtt gctagacgcg agtcaccgtg atctaaggag 240

agcaagagca gctgctttga acattgttcc tacttctaca ggagcaagct aaagctgtgg 300

ctcttgtgct ccctaaactc aaagggaaac tcaacgggga tttgctcccc gtgttacaac 360

aacaaaacgt nncaatgggt tgatncccnt ggtgcaaggc ccaaaagaaa aaan 414

<210> 548
<211> 407
<212> DNA
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<223> Clone ID: ARABLI-11-Q1-B1-B2

<400> 548

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gtatagcatg ggttacttca gcgccgtagc gcctggtact cgaacattgg ctcggggcat 120

tttctctacc ccttcttacc ctgaaaaaac agggacacct tgcgtccttg aaccgataac 180

catctttcgg ctaacctagc ctcctccgtc cctcgggacc aacaaggggt agtacaggaa 240

tattcacctg ttgtccatcg actacgcctt tcggcctgat cttaggccct gactcaccct 300

ccgtggacga accttgcgga ggaacccttg ggttttcggg gcattggatt ctcaacaatg 360

tttgcgttac tcaagccgac attctcgctt ccgcttcgtc caacgcc 407

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<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-11-Q1-B1-B4

<400> 549

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ccctcaattt cgcattgcca tcgattttct tagaggttaa aatggttgaa cagactcagc 120

accccacgat tcttcagaag gtttctggcc aactcttgag ctcgagtgtt tctcaggaca 180

ttcgtggtta tgcttcggct tccaaaaggc ctgctacata ccagaaacat gcagcttacg 240

gaaactactc caatgctgca tttcaatatc ctcttgtggc tgcatctcag attgcaacta 300

ctacttctcc tgtgtttgtc caagctccag gagagaaggg atttactaac tttgctattg 360

atttcaagat gggtggtgtt tccgctgctg tgtcaaagac tgctgctgct c 411

<210> 550
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-11-Q1-B1-B5

<400> 550

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atcctcgatt ctaaaaagct tccagaggac aataatttgt gacggagtaa ctctcgagga 180

catggaatgc aacaaggatg aagcgaaaag ggcaatggat attgctgaga ggaagatgac 240

agagaaggat tacactgggg cgaaaaagtt tgctaacaag gctcaaaact tgtttcccga 300

gttggatggt ctgaaacaat tgtttgtggc aatcaatgtt tatatctccg ggagagaaaa 360

cattcgccgg agaagctgat tggtatggtg tccttggtgt aaaccccttt gcta 414

<210> 551
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-11-Q1-B1-B6

<400> 551

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agagacggat tctggactca gaaagcggcg attcgatttc aaaacccggt aaaactcctt 120

ctccaaatgc ttcatagctt tccgcatcaa atcctgtcct ttagcaagct tagcggagtc 180

cggattcata gcaacggtgc tctgaatggc gtattgtaac ttgccgagaa cctcgaggaa 240

gcgtctgcct tctaggcggt tttgagcgga gaagagggaa gagaggctgc atgaagaaga 300

agaagagtcg cagaggtgtg gagtaaccca ttggcatatg aaggcgtcag ctgcctccac 360

actatcgccg attagagact cggagaagcc ctgttgctgt tgcggcccga 410

<210> 552
<211> 136

<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-11-Q1-B1-C6

<400> 552

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taaaaaaaaa aaaaaa 136

<210> 553
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-11-Q1-B1-C7

<400> 553

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tcacgaatta tctgacctct gtatcggtaa gccaccttta cggtgtctct ccgtcgccac 120

agccaccgta gctgacgcca tcgccgctct caaatcctct gacgaaccgt tcctcaccgt 180

atggagctgt aatcacgatg agaaaacaga tgataatgat aagtgtgagt gtttgggtaa 240

gatctgtatg gctgatgtaa tctgttacct atccaaattc gacaacaatg ttttgtctct 300

ttcctctgct ttcgacgcat ctgtctctgt tcttcttccc aaatctcgtg ccctcgtcgt 360

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<210> 554
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 554

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tcaatggtct aattttcatc agattgggag aaactctttc ttagctgctt ctactgttta 180

cgtttcaaac gaattcaact tcttaaacac ttctcttctt aatcgaagaa gcttctgttt 240

tgcagaagga gatcgatcca gctttgtagt gttgaaatcg gaagcagagt tcaacagtgc 300

attgagtaaa agctcgagat ggatctttgc catcggtttt ctatttcact gccgcatggt 360

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aacgtataan ggccac 436

<210> 555
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 555

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atcaaaatgg gtggtggtgg tgatacaaca gataccaata tgatgcagag agttaattct 120

tcttctggta catcgtcttc ttcgatccct aaacacaatc ttcacttgaa tcctgctctt 180

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tcgcaaccgt cttctttcct tctcctttga ttcattgccg ccgttaaatc cttctgctcc 360

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cc 422

<210> 556
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-11-Q1-B1-D4

<400> 556

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gtcactgagt cttttctcct cctcgtcgga aagaatctgg cttgtcttct ccttgtggca 180

gaatcattac tgataggttt ggttgctgtt gaccagaggt tgtctgtcaa ggagggttac 240

aaaagaggaa gccgtattga ngaaaacaaa agatgctaat gacaatnaac aataacgaan 300

aanatgaaag acccgatgaa ggaccaanat natgaaggat gatgccnatg aatnaanatt 360

tcncaagggg ggtgaaaggg aatnaaagga gaaagaaaaa actgattcaa aangatgatt 420

ct 422

<210> 557
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-11-Q1-B1-D5

<400> 557

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atttaaggcg caagatggac gcatagctct aatactagaa tcaacggtgt ttcatccaca 180

aggtggtggc cagccgtcag acaccggttt aattgttttc tccggttcgg atttgaaatt 240

ttccgttcaa gatgttcgat cgaaagacgg aattgttctc cattacggag ttttcgaagg 300

ttcgaatcct gaaagtggaa ttgatagtga gaaagggaaa gaagtttact taactgttga 360

tgaatcaagg cgtaaactca attccaaggt tgcactcagc tggacacttg 410

<210> 558
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 558

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gctgcgaact tacaccttac gtacttctcc ggcggcctga taagaccccc tccaccgatg 180

atgtgcctga gtcagccccg cttgaaggtc acttcttaaa gtacagatgg tttcgagtac 240

agagtgataa gaaagttgcg atttgtagtg tgcatccatc cgagacggca acattgcagt 300

gtctgggatg tctaaagtct aaagttcctg ttgccaaaag ctancattgc tctactaagt 360

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<210> 559
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 559

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ttaaataagg agagagcagc ggatatgtac agattaagcg catatttcct agctcgaacc 180

acgagtgatc tccctctcga ctttattcta ccttctctct tccttcttgt cgtctatttc 240

atgacaggtc ttcggatcag cccatatccc ttcttcttga gcatgctcac agttttcctt 300

tgcatcatcg cagctcaggg actcggactt gcaattggtg ccattttaat gggatttaaa 360

gaaggctacg aactttggct tcaagtaact gtcatgacan tcatgctccc cgggagggat 420

tcctcngcaa anaaagtggc gggtttcaan atcctgggta acgttatcca nccttcaaat 480

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<210> 560
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 560

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gaaccgggtc ttgataaacc accggtttat ccggttggac cgttggttaa cattggtaag 120

caagaggcta agcaaaccga agagtctgaa tgtttaaagt ggttggataa ccagccgctc 180

ggttcggttt tatatgtgtc ctttggtagt ggcggtaccc tcacatgtga gcagctcaat 240

gagcttgctc ttggtcttgc agatagtgag caacggtttc tttgggtcat acgaagtcct 300

aatgggatng ctaattcgtc gtattttgat tcacatagcc aaacagattc aatggcantt 360

ttaacaacgg ggattttaaa ncgggctaaa aaaaanaggt ttgtgatc 408

<210> 561
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-11-Q1-B1-E7

<400> 561

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aaattcagta acaagtccga gcggtgactc ggtacgagca gaccggtggg cttttcttag 120

aaacccatcg tttctctgga ggaatacgac gccggttcct tcgccgagag ttgaagtcaa 180

taataaggac ggtgaaggaa catcgtcagt tcaacatatc ggtacagttg gttcaactag 240

cggttccctt aggctaccgg tttagtgttc ggtgatgttt tgtgcattgt tcataaacac 300

gcaatagatt ttacgtaatt ctttaatttt gtttgtcctt ttctgtaaga tatttaaatc 360

gacaatccaa cggaaaaagg agattgtttt acttaattta aaaaaaaa 408

<210> 562
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-11-Q1-B1-F1

<400> 562

anaaangaat ggattgggcn acttnaaatt tnatnggaag aantncgttc aacaaacaac 60

cttatctaat tttcatctac tgaatatttt agtcctgcgt tctctcaagc ctctgcatcg 120

tctatctttc tctttctctg cctcagcaat ggagagtgat gcatcttgta gcttagtttt 180

gtgtgggaaa tcctctgtgg aaactgaggt agcaaagggt ttgaagaaca agaactctct 240

taaactccca gataatacca aagtttcact cattttagaa tctgaggcta aagaatttgg 300

ttaaagatga tgataattcc ttcaatcctt caatccttaa gaactcnatt ataactcanc 360

ggtttggacg gtttctcaat tggtccccgc gtttgtcctc cantcac 407

<210> 563
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-11-Q1-B1-F2

<400> 563

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agctcaagct cggagagatt gtaaccacca ttcccactat tgggttcaat gtggagactg 120

tggngtacaa gaacatcagt ttcacagtgt gggatgtcgg cggtcaggat aagatccgtc 180

ccttgtggag gcattacttc cagaacaccc aaggtcttat ctttgnggtg gacagcaatg 240

acagagaccg tgttgttgag gctanagatg aattgcaccn aatgttgaat gangacgatc 300

tgcgtgatgc tgttctgctc gtatttgcta acaagcaaga tntcccaaat gctatgaatg 360

cagctgagat nacggntaag cttggtctcc actctctccg tcanccgtca 410

<210> 564
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-11-Q1-B1-F3

<400> 564

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gacagttgaa gcaatggcaa aggcctttgg cgtttctgtc gatttcatag accaggagtt 120

gtcgcgcttc attgctgctg ggaagcttca ctgtaagata gacaaggttg caggtgtttt 180

ggagacaaac cgtcctgatg caaagaatgc actttaccag gcaacaatca agcaagggga 240

tttcttgcta aaccgaatcc agaagctgtc tcgtgtgatc gatctgtgag catgctacat 300

gtttctgttt cactccttcg tcaaagcttt gcaacttgga aactcccgaa cggtaaaatc 360

ctaaaggtct gagaaacgat atgaactttg gattttgaga tgaatggctg 410

<210> 565
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-11-Q1-B1-F4

<400> 565

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ctcttcnatt cnatctctta aaccctagat ttgatctggg tnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntggtcg catccccttt 180

tatccgagaa ggatctatcc aaatctttgt ttgtcgaatc tcctctcatg gctaccgttg 240

ctcctcctgc tgatcaagct acagatctgt tgcagaaact atccttggac tcgccagcaa 300

aagcttcaaa agattcctga gcctaacaag aagaatggcg tctaacaagt atggaggcgt 360

tgangttcaa gggcnagttc cttctaagat ngatctttga caacaaa 407

<210> 566
<211> 272
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-11-Q1-B1-G12

<400> 566

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taggtttgac aagctgattc tactaggaag aggaagtctt ctctactttg gaaaatcatc 120

agaagcttta gattacttct cttccattgg atgctctcct cttatcgcca tgaatcctgc 180

anagttcttg ctcgatcttg ccaacggtaa catcaacgat atctctgtac cttctgagtt 240

agatgataga gttcaagttg gcaattcaag gt 272

<210> 567
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-11-Q1-B1-G8

<400> 567

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cccacgacct tcttctancc ggccaccgct atctagacgt cangactcca gaagagttca 120

gccagggaca tgcctgtggg gcgatcaacg tgccttagat gaatcnagga gcatcaggga 180

tgtcaaagaa ncccgacttc ctggaacaag tctcctccca tttcggagaa tccgataaca 240

tcattgttgg ctgccagagc ggtggtagat ctatcaangc caccaccgat cttctccatg 300

caggtttcac ggggagtcaa agatatctcg gtggctaana gtgcctgggc caaagaatgg 360

gcttcctaaa aanggcttga gtgactcaac aatcnacaaa aatccttttc cttanc 416

<210> 568
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-11-Q1-B1-H4

<400> 568

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cttaccccca tttctcgnga naccccctagn aantccncct cttgttccgc nactgccgcc 120

gcngctactc aacggtggtg aattttctat acggtcagtt cgatcctctt tttatcgaca 180

atcctacaca aatccataat catggccgcc actgcttcct ccgaagcttc tgaaggacca 240

gtgatgggtc tcatcaacaa gcgtctccgt gctctccgta agaaatacaa ccgaatcact 300

caaatggaag aatcgatttc tcaaggcaaa accctaaaca aggagcaaag aagaagtcct 360

ccgctctaaa cctgccgtcg tcatcctaat cgacgagctt gaaaagattc gtgctcctct 420

ctccgccgct gtgacagaag 440

<210> 569
<211> 218
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-11-Q1-B1-H5

<400> 569

ctcgagggaa gatacaaatc atacaatcac caatcagaaa aagcagaacc gtgactctga 60

tgttctacta tttcagtagc aactgtactg atccacccca atgtattcac ttactgtata 120

tccacctatc caaaatttat tcgtttgtat ccattacttt gtatcacgat tcgaacacac 180

ctctcttttt ttttcccctt ttcaaaaaaa aaaaaaaa 218

<210> 570
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-11-Q1-B1-H6

<400> 570

ctcgagaaag aaacagaaca acaatggcga aattaaatcg ttccaacatt ggtctctcac 60

tgttactatc tatgttcctc gcaaacttta tcaccgatct tgaagcttct tctcatcaag 120

atctcaacca accgtaccgg accggttatc actttcaacc tctcaaaaat tggatgaacg 180

atcctaatgg accaatgata tacaaaggaa tataccatct tttttaccaa tataacccat 240

acggtgccgt ttgggatgtg agaatcgtgt ggggacactc cacgtcagtt gacttagtca 300

actggatttc acaacctcca gcttttaatc catctcagcc gtcaagatat caacggttgt 360

tggtcangct ccgtcacgat tctaccaaac ggnaaacctg tgatcctcta ca 412

<210> 571
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-A2

<400> 571

catgcgtcna cgtcgactct aaannatccc ctcggggaat tccaattcca cattttcaag 60

aaataaggag gcaaaaatgt tcatatatga attggaatta tttgttttct tattaggcct 120

atcctgaagc caaaggaaat gagatcggaa ttcctcgggg aattccaatt ccacattttc 180

aagaaataag gaggcaaaaa tgttcatata tgaattggaa ttatttgttt tcttattagg 240

cctatcctga agccaaagga aatgagatcg gaattcctcg gggaattcca attccacatt 300

ttcaagaaat aaggaggcaa aaatgttcat atatgaattg gaattatttg ttttcttatt 360

angcctatcc tgaagccaaa ggaaatgaga tngggnattc ctcgggggta ccgaactccg 420

aantcccnaa agtggagtcc gtattaaatt cgtaat 456

<210> 572
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-A3

<400> 572

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agtctaaaca caaaaatgaa ctccaatagt ttcttaatct cagcagcctt aatcttctct 120

ctactatcat caaattctcc aacatcgatt cttgctcaaa tcaatacacc atgttcacca 180

tctatgctct ctagcgttac aggttgcacg agttttctaa cgggaggtgg tagttttccg 240

acctcagatt gttgtggggc tcttaaatcg ttaaccggaa ccggtatgga ctgtttgtgt 300

ctgatagtaa ccgcaggtgt tccaatcagt attcctataa accgaacttt agccatctct 360

ctccctcgtg catgtggcat tcctgggtgt ccccgttcaa tgcaaagctt ctgcagcaac 420

tctccctan 429

<210> 573
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-B3

<400> 573

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nnnnnttgct acaatggaat ccatcgtata aaaagggttc atcctctgat tcactctctc 120

acatttcatc gattctcctc atcttctctt ccattcaaat ctcacattcc ctcttcacaa 180

caacagcttc gtattcgctc atcttcttcg ctttctgatc ttggaaatcg caggcattgt 240

tcgtctactc gaggatttca attttggtca tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnacc ggcggttcgt 360

atttccgacg ggaatctaat catcaaaaac cggacgattc taaccggtgt accaagataa 420

tgtcatcacg aa 432

<210> 574
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-B6

<400> 574

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cgatattctc atcgttacga cggaggagat cgccgtcttt ggaagcattc ttagcccccg 120

ttgacctttc cggcgtcgca cttgttcaaa ccctagcttc aatctcttcg gaggttgttt 180

cttgtttcac ctctgttcga ttctcgtttc aacgcaagaa cgctcgttct ttgattcgta 240

agatcgagat ctttgtcgta ttattcgaat ttctcgtaga ttcaaattgg ggctnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnntctgt ttctgaatca acagctttgc 360

tttgtctcaa agagctttan cttcctctct atcgttccaa gatccttgtt gat 413

<210> 575
<211> 67
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-C10

<400> 575

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nnnnnnn 67

<210> 576
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-C3

<400> 576

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ataaggaggc aaaaatgttc atatatgaat tggaattatt tgttttctta ttaggcctat 120

cctgaagcca aaggaaatga gatcggaatt cctcggggaa ttccaattcc acattttcaa 180

gaaataagga ggcaaaaatg ttcatatatg aattggaatt atttgttttc ttattangcc 240

tatcctgaag ccaaaggaaa tgagatcgga attcctcggg gaattccaat tccacatttt 300

caagaaataa ggaggcaaaa atgttcatat atgaattgga attatttgtt ttcttattag 360

ggcctatcct gaagccaaan gaaatgagat nggaattcct cgggggtanc 410

<210> 577
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-12-Q1-B1-C4

<400> 577

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agcgcaagca tgtttgaagg aataggttct cgatccggtg gttcctttgg aggaggcatg 120

agggatcgtg gttcaagctt tggtggtcgt tcaggcggtg gtggttatgg tggcagcagt 180

ggtggttatg gtggtgggcg ttcaggcgga tcaagcaacc gttattctgg tgattctgac 240

cgttctggtt ttgggagctt cggtatgcgt tctcctgagg gatatggttc ggatcgttca 300

tctcagtcag gtggaaggag cagctttggt gggtggtcgt tcaagcggat catcaaacaa 360

tcgttcctct ggtttcgggg actttggctc tgaccgttcc ttctcagtca ggcgga 416

<210> 578
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-C6

<400> 578

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ccatttcaag ggaacaacaa cacagtcgta gttcccgaga ccaacaattt caccacgact 120

catttcgaca cgttcgggag aatctctgga tggaatcatc acgacttaac tatgacgtca 180

tcatcctcat cagaacatca acaacaagaa caagaagaaa ggngtaatgg tggtttcatg 240

gngannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nagtgtttcn tggtgggcaa caacaacaac aacaaagggg tnccccttcag 360

tccaatttaa tcccnattcg tttcgttcct tgggattatc aacaaacgaa gtcgggt 417

<210> 579
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-D1

<400> 579

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taaagatctc tctcatggcg atgtctttct caggagctgt tctcactggt atggcttctt 120

ctttccacag cggagccaag cagagcagct tcggcgctgt cagagtcggc cagaaaactc 180

agttcgtcgt cgtttctcaa cgcaagaagt cgttgatcta cnccgctaaa ggtgacggca 240

acatcctcga tgacctcaac gangccacaa agaaagcttc agatttcgtg acggataaaa 300

canangaggc attagnanat ggtgaagaaa ncgaaagact atcgttgttg aagaanacan 360

ntgnaaccgc agatncattg ggtnaaagaa gcttaagaaa agctgcgggn tatg 414

<210> 580
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-D10

<400> 580

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ctcaaaacac agagccaaag aaaagcttca ttacctcact aatcactctc cgttcaaaca 120

acatcaaaga agacacatac ttcgtctcag aactcaaacc cacggagcaa aaatcacttc 180

aagaactcaa agaaaagctc tcagcttcat cctccaaagc ttcttcaatg tggggagtct 240

cactcctcgg tggagacgac aaagctgacg taatcctcct caagttcctc aagagcaaga 300

gatttcaaag tagcaagact cctttgagaa atggcttgag aaagtgtttg ggagttggag 360

aagaagagtt tcaaaagcaa gagaaaattg ncaagaanga agatttgggg gttttaaaag 420

gatttg 426

<210> 581
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-12-Q1-B1-D2

<400> 581

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ggttccggtg agacattttt gaagactggt gattcacctc ttcttacagt tatgtcagct 120

ggacatgctc ttcatgtgtt tgtcaatggt cagctttcag gaactgctta tggaggactt 180

gaccacccaa aactaacctt tagccagaag atcaaactac atgcaggtgt caacaagatt 240

gctcttctga gtgttgcagt gggtctcccg aacgttggta cacattttga acagtggaat 300

aaaggagttc ttgggtccgg tcacattgaa gggagtaaac tcaggaacat gggacatgtc 360

gaaatggaaa tggtcctata agattggtgt aaagggtgag gctttgagtc tcata 415

<210> 582
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-D3

<400> 582

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gtgttccacg agtttacgac aaactatatg ccggtataat gcaaaaaata tcagctagtg 180

gcttgatacg caagaaactg tttgattttg cttataacta caaattggga aatatgagaa 240

aaggattctc tcaagaagaa gcttctcctc gtctagacag acttatgttc gataagataa 300

aagaagcatt aggaggaaga gctcatatgt tgttatcaag gagcancgcc tctacctcgt 360

catgtanang agttcttgag aatcantcct gcctcctaat ctcctctcaa gggtatggat 420

tg 422

<210> 583
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-D4

<400> 583

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attcnanatt ttcaagaaat aaggaggcaa aaatgttcat atatgaattg gaattatttg 120

ttttcttatt aggcctatcc tgaagccaaa ggaaatgaga tcggaattcc tcggggaatt 180

ccaattccac attttcaaga aataaggagg caaaaatgtt catatatgaa ttggaattat 240

ttgttttctt attaggccta tcctgaagcc aaaggaaatg agatcggaat tcctcgggga 300

attccaattc cacattttca agaaataagg aggcaaaaat gttcatatat gaattgggat 360

tatttgtttt cttattangc ctatcctgaa gccaaaggaa atgag 405

<210> 584
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-D7

<400> 584

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gcttgcattt gctacggatt cttcttaatg ctcggaacag ttggcttccg cgcagccctc 120

ctctttgtcc gtcacattta ccggtcgatc aaatgcgagt aagaaggtct gtacaccaan 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnagaacaaa 240

gaagataaag agataggttg ttagaaagaa gagagacaca nagacaatgt ctgattattt 300

tctaaagaag catctcttct cattagaggt tttancgaga agtctctctt cttctcctct 360

ttaatttggg gctacaagaa attaaaatta cttgtatcct ttccaataat agtttaac 418

<210> 585

<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-E4

<400> 585

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tatgcagtat aaagcaacga ttggtgctga ttttgtaacc aaggagcttc agattgggga 120

aaagcttgtt actttacaga tttgggatac tgctggacaa gagagattcc agagtcttgg 180

tgctgctttt tatagaggag ctgattgttg tgctttggtt tatgatgtta atgtgttgag 240

gtcttttgat aatctcgaaa cttggcatga ggagtttctt aaacaggcaa gtccatcaga 300

tccaaagaca tttccgttta tagtgcttgg aaacaagatt gacgtanatg ganggagcag 360

tagagtggnc tctgataaga aaagcagctg actgggtgtg cctcaaatgg taacatancc 420

ctaattccg 429

<210> 586
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-12-Q1-B1-E5

<400> 586

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agatcaaaag atgaacatcg ctcacactat cttcggcgtt ttcggaaatg caactgctct 120

gtttcttttc ttggctcctt cgataacatt caagagaatc atcaagaaca aatccactga 180

acaattctct ggtatccctt atccaatgac tctcctcaac tgtctcctct ctgcttggta 240

tggacttccc tttgtgtcaa aagacaacac acttgtgagc acaatcaatg gcacaggagc 300

agtgatcgaa acagtctacg tgttaatctt tcttttctac gcaccaaaga aggagaaaat 360

taagatcttt ggtatcttct cttgcgtttt gggctgtatt cgcaacagta gctctccgt 419

<210> 587
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-A8

<400> 587

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atcttcttgc cgtcttcttc ttcatttcac caggaacttt tatttgaaat cggtttgatt 120

tagccatggc aaacgcggca tcgggaatgg ctgtgcatga tgattgcaag ctgaaattta 180

tggaactgaa ggcgaaaaga acattccgta ccatagtcta caagattgag gataagcaag 240

tgattgtaga gaaactcggt gaacctgaac aatcatatga tgacttttgc agctagtcct 300

tccaactgaa tgatggccga taattgcatt tacgaattcc aacttgnnaa ctgcgggaga 360

actggccaaa aagaagcaag attcttcctt caattgcaag gggtctcccg gacactggcc 420

aaaattgag 429

<210> 588
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 588

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cagaacttct agttaggtgg taccaagtgg gtgcttacta tccatttttc aggggtcatg 120

ctcatcacga taccaaaaga cgagagcctt ggttgtttgg tgaacggaac acagaactca 180

tgagagatgc catacacact cgttacacac tgctcccata cttctacacg ttgttcagag 240

aagcaaacgt tacgggtgtt cctgttgtac gcccattatg gatggaattc ccgcaagatg 300

aagctacttt tagcaacgat gaagccttca tggtcggtag tggtctactg gttcaaggag 360

tttacaccaa gggaacaacg caagcttccg tgtanttgcc tggcaa 406

<210> 589
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABLI-14-Q1-B1-B10

<400> 589

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acactctcac cgcantggcc gcctcgacaa nggntctctc ctctcctgct ttgaccggaa 120

aggncgttaa gctatccccg gcggnctccg aagnatttgg aaccggccga atcancatgc 180

gcaaagcctc caagcccacc ggtccatccg gcancccatg ggacggatnc gaccgagtca 240

agtacttggg tccattctcc ggtgagcctc cgagctacct cactggagan ttccccggtg 300

attacgggtg ggacactgcc ggtctatccg ccgatnccga naccttcgct aggaaccgtg 360

agctanaant tatccacatc agntgggcca tgctcggagc cctaaggtgc gttttcctga 420

gctattggc 429

<210> 590
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-14-Q1-B1-B11

<400> 590

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ggcgacggct ccgccggaga tgacagattg gttgtgcttg accaaactca aaacagagaa 180

ttgcatattc ctggtttcgg tgtttttcaa aatgtctccg ccgatataaa ctgcgacaaa 240

ggagaacgaa ctcgattccg ttccgacatt cttgacttca acaagatgtc ggagtatttt 300

aaccaagagg tcgtcggtga ccggaaaaat accgtcggga aatttcaacg cgacgttcgg 360

gtttcaaagc gggtcatggg cgacagacgc cgcaaacgtt aaatct 406

<210> 591
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-B5

<400> 591

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agaagatgct tcctctatcg ctgcttaaaa ctgctcaagg gcatcctatg ctcgtggagc 180

ttaagaatgg agagacatac aatgggcatt tggtgaattg tgatacttgg atgaacatcc 240

atctgcgtga agtcatatgt acatcaaagg acggagatag attttgggag gatgccggaa 300

tgttatatcc cgtggtaaca caatcaagta ccttccgagt tccgggatga ggtgattgat 360

aaagtacaag gaggagaaag acacgccaca agatagaaaa ncaacaaggt ggttggacg 419

<210> 592
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-B9

<400> 592

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atctgccaaa gttaacgact gggattggtg cgcttgcatg gctgggattc attcttgcaa 180

ctgcaggatt atttttgttc taccgctgta gcaggaagga tccaggttac atcagaatga 240

atatccatga tccgcaaacc atgaaagatg atgaaccact cttaaaaata gagctaaaca 300

atcctgcttt gcttgctggg aattggacac agctctgtgc aacatgcaag attatcagac 360

ctcttcgagc taagcactgt tccacctgtg atcgttgtgt anag 404

<210> 593
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-C1

<400> 593

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ctttcaggtt attcgacaag aatggtgatg gttccattac gaaaaaggag ctcggtacca 120

tgatgcgttc aatcggtgaa aaaccgacaa aagctgatct tcaggacttg atgaacgaag 180

cggatttaga tggtgatgga accatcgatt tccctgagtt cttgtgcgta atggctaaga 240

atcaaggtca tgatcaagcg ccgcgtcaca ctaaaaaaac aatggcggat aagctcactg 300

acgatnagat tacaagagta cagggaatcc ttcaagttat tccacaagaa tgggtgatgg 360

gtccaatacg aaaaaagggc tccgttaccg tggagttttc cctccggaaa aaaacgg 417

<210> 594
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-C2

<400> 594

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agtcgaacca agttccgaca ttagaccgac gtaactcact aaaaaaatcg cctcctaagc 180

ctttgaatcc aattgcatca aagataccct caccaagacc aatttctcta atctctcctc 240

ctttgtctcc caacacaaaa tccttaagaa aaccggccgg ttcttgcaag gaacttctta 300

ggtctaagct ctacaaaatc gaaaccagtg atatcaccaa gagaacagtg atgggggnta 360

caaagaggtt atgcctaagg tgattgttca aaagcagcct ggaagtatag cagctgcca 419

<210> 595
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-C4

<400> 595

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gtcaaccaag attccgcagc atgtgggaac gttactgtcg cgctgtttct gccattgtgt 120

atgtagttga tgctgcagat cctgacaacc taagtgtgtc gaaaagtgaa ctccatgatt 180

tgttgagcaa gacttcgctt aatggtatcc ctcttctcgt tcttgggaac aagattgaca 240

aacctggagc tctgtccaaa gaagccttaa cagacgaaat ggggacttac atcacttaca 300

gatagagaan tctgctgttt catgatatca tgcaagaact ctaacaaana ttgatnaagt 360

cattgattgg ctcgtaaagc attcaanagt ccaagnacta atcctcanca aagaaca 417

<210> 596
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-14-Q1-B1-C5

<400> 596

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ggctccggtt attgcttctt tctccggtag aggaccaaac ggtttaagcc cggagattct 120

taaaccggat ttgattgctc ccggagttaa catcctcgcc gcatggacag acgctgttgg 180

acctacaggt ttgccgtcag atccaaggaa aacggaattc aacattctct ccggtacttc 240

aatggcatgt cctcacgtta gtggtgcggc ggcgcttctc aaatccgctc atccagattg 300

gagccctgcc gtgatacgat cggcaatgat gacaacgact aacctcgtcg ataactctaa 360

ccgctcgttg atcgatgaat ccaccgggaa atcggctacg ccttaagatt 410

<210> 597
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-C6

<400> 597

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gaacaagaaa caaaaacaaa acgttgttta agtgtggttc tatagatttc ttgtgaatgt 120

cttctgaaca aggaaatgga tcgaatcctt ccacgtcacc ggaggtagaa gggactaaaa 180

caatcccctt tcgccggaga ttgcaaagag gacaaagagt tttcgctcca aagctgatgg 240

aggctctacg tcgatcaagg gtaagctctg aagaagctcc ggtaaggcat cttagtcgta 300

gattggaaaa gccacaaacg cccaaaaagg tanattcccc taaagntcct angangcctc 360

cttcnaacga tttgcgggcg gaaccgccaa canttccggg ggacaacggg ccgaacaaaa 420

ntcccttgcg aa 432

<210> 598
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-D2

<400> 598

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atccaaagga gttcacttat ctggttactc tcctttgggt tcccaaagta agggagaagt 180

caggctaaag gttcttcaaa acccgattgt taccgaggtt gctgagaaac ttggaaagac 240

caccgcccaa gtggctctcc gttggggact ccaaactggg tcatagtgtt ctaccaaaag 300

agctcgancg gggctcggct caagganaat cntgatgttt ttgactggtc caaaacggna 360

agattcggtt taacaaagtt ccccaacaat ccccaggaga agttttgccg anctactg 418

<210> 599
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-D3

<400> 599

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnngag aatgtcttct acaacaatcg 120

gcgagcacat cagactccga cgagctagaa accaaacaat ccgtcatctc cacgccgccg 180

acgatgatcc gccgctaagc cacgtcgttc ttccgatttc acaacctaat cgcttctgta 240

actccgcaat gtcttccttc tttcccctcc cgacttcctc ctccaacgaa agcacgagga 300

agaaaccgta ccaaacgtcg tcgtttcgag ggatgggttg ctatgccgca agcaagcaag 360

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<210> 600
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-E10

<400> 600

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agtttttgtt ggagacttgg cacctgatgt taccgaccac atgcttactg aaacgtttaa 120

agctgtgtat tcctctgtca agggagctaa agttgtgaat gataggacta ctggacggtc 180

caagggttat ggatttgtca ggtttgcgga tgaaagtgag cagattcgtg ccatgactga 240

aatgaatggt caatactgct catcaaggcc tatgcgtact ggtcctgctg ccaacaagaa 300

gcctcttaca atgcaaccaa cttcaataac aaaaacactc caagggaant taaggngaaa 360

attgttcaaa ctaacannaa caatttttgg ttggnaccct tttggtttta aaattgtaaa 420

n 421

<210> 601
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-E11

<400> 601

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tatccagccc gggccatcca ttttggttga tcaaatggat actgaaaaat ccaaagaacc 120

tggtaccgag agtgctgatg tgtctttaca ccaattagct gatatccagc ccgggccatc 180

cattttggtt gatcaaatgg atactgaaga attcaaaaat cctgatgtgt ctttacacca 240

attagctgat attgagccct cactgtctat ttcagctgtg caaaagaata ttgaggataa 300

ggatcaaagt cacgttgaaa ctgctggatc tgagttagtt gatgtctccg ccgaatgttc 360

aacagaacct caagttcaat tacggcatcn tcaaagccaa tggga 405

<210> 602

<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-14-Q1-B1-E3

<400> 602

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attcttgaac tcatgattac agagggcgta aggtttgaag cggagaggca tcagggataa 120

agtagagatt caaacagttt cagggtttca aacaggataa cagggataca catgattaaa 180

agtttgaaaa gggttacaaa acagaattag agagtaaaag cagagacact accgggatgc 240

atagagaaga tacctccact tctcggtgag gtgaaaacag ttgaaaacgc cggaaaaagg 300

tcactgggaa ctccatcttt gcccgttgtg taaagccatt tttgggaagg aactgttgga 360

taattctgtt ttaataaaaa gagtaactga agatctggtt tttcaaaagt ttc 413

<210> 603
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-E5

<400> 603

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ttagaaaatg ttattcacga ggagtgttgc tcggatttct tctaagtttc tgagaaaccg 180

tagcttctat ggctcctctc aatctctcgc ctctcatcgg ttcgcaatca ttcccgatca 240

gggtcactct tgttctgact ctccacacaa gggttacgtt tgcaagaaca acttattcat 300

tgaaatctcc ggtttttggt ggatttaagc aatcaactct atcaacanag taactccttg 360

ggttgangaa gaacttgacc caatttcgcc tggttgccga tgaactgtca c 411

<210> 604
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABLI-14-Q1-B1-F10

<400> 604

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aaagcagagt ggtgttggta ccgtcagagt tggccggaag agtgagctcg tcgtcgttgc 180

tcagcgcaag aagtcgttga tatacgccgt taaaagtgac ggcaacatcc tcgatgacct 240

caacgaagcc acaaagaaag cttctgattt cgtgacggat aagacgaagg aggccttggc 300

ggatggcgag aaaacaaaag actacattgt tggagaaaaa caattgaagn caaatgaaac 360

tggcaatgan ggaagctaaa aaaacctttg gattnagttg acctgagaaa agggaaaag 419

<210> 605
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-14-Q1-B1-F11

<400> 605

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aagccaaatc gccattagtc accaccttaa atgactcacc tagtatatat atatatgcac 120

catatgagtt tgatcaatct cattcaatac aatggctgaa gaaaagatca agaagagctt 180

gcttgctgcg gacgacagcg acgatgagta ctcaagaggt gatacagttt cagatcagac 240

agaactgagt tcgattcttg ataaacttag tctagaacct aagacggaga aaaagaaact 300

cttggtcttg agtctaagtg gtcttcttct tcacagagtc cacaaaaaag agttgcgtaa 360

gaaacccaaa gaaccgctct cctggatgcc tcctggtggg gcaaatcctg 410

<210> 606
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-F2

<400> 606

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aagaagctag tcttgtacta cacgacaaac aaaactccga aaccaatcgc ttattttgaa 120

tacgaattct tcaccaagat aacacaattc cagtcaatga cgttccaagc tgtggaagat 180

tccgacacaa cgtggggtct agtcatggaa ggtgtcgatt ctggttctaa attcaacgtt 240

tcaacgttcc tctcacggcc gaaacacaac gcgacgttga gttttattcg gttagaatca 300

gacggaaaca tcagagtttg gagttacagt acgttgggcg acttcacggg ctgggacttg 360

acatacaccg ggtttaacaa agccgacact gaagggtaac gaanaagtg 409

<210> 607
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-F6

<400> 607

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tcgatggcgt ctcccaaact ctcgacctta tccgttctaa gggtaaaaat gttgtctttg 180

tgaccaacaa ttccgtaaaa tcgaggaggc aatacgctga aaagttccga tctttgggtg 240

tcacttctat tactcaggat gagatcttct cttcgtcatt tgcggcagct atgtatctca 300

aagtcaataa ctttcctaag gacaagaagg ttaaggtgaa ttggtggaaa agggtgtcct 360

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<210> 608
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-G10

<400> 608

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aattcggctc gagcggtgtt atatcttcct gccttgaatg tttccttgcc ggaggtgatc 120

tctatgtctt tgagtacagt gtttcccctg ctatctttct tgccaaacct cgaggcggcg 180

tatgcactat agcatcttca gatcctccag aagaagtcat ctatcgagca aattttctct 240

tgcaaaatgg ttttggtgtg tacaatgtct tcaagaacaa ctgtgaagat tttgccatct 300

attgcaaaac gggtttgcta gtggcaaaca ccgacgtggg aaggagtggt caagctgctt 360

caattgttgc agctgccaag tgttcttctt tcctcaccac tcangtttgt aacaagtttt 420

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<210> 609
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 609

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gccttaagca cgtcagtact acgtgatatc atgaaccaaa gctccatacc catcaaagta 180

actccaaaac tgccaacaac agagaagaac ggaatgaata gtccgtccta tcgattcttc 240

aacgccgcct caatagactg gaaagccgat atccaaaact gtttaaactg ggaagctcac 300

agcttgctct ccacaactat gcctactcag tttctcgaca ctgcggctcg ggaactcggc 360

tgtactanat ccttgtccca ataacgaaca ccacttttgg ttttgg 406

<210> 610
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-G2

<400> 610

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agttcagaca ccgaatctag cgaatctgtc tctcaacgac tcgatctgga gcacaaactc 180

tgtcttcaaa gagcgtcgaa acttagacat agccgccacc accgacaaga acaacaacca 240

gatcgactat tatcagaaga agacaacttc cgacaacatc aattccaact gggaactggg 300

aagtcttctg gttcaaaaca acgacatggg gttaaggatc cganctgtgg ggtcaaaatc 360

caacgtcgat ttaaacccaa tccgacaaat tcaactcaac cgttcaacga cacgtgggaa 420

aat 423

<210> 611
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-G5

<400> 611

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agagaacatg attctcatca ggtggaatct taaaggtgta cctagagtcc catgggaggc 180

aaagggagag tttcagggta cttctcgcta taaactcgac cgaaatggca aaatctatga 240

gcataaggtc gataacttgg ccttcaactt ccctcaccaa gctcaaacct gccacttctg 300

ttttgggata tgggtcaccg cttgccctgg caaagtccca aatccaaact ttcaatgttt 360

tgggcgccaa tgggattcat actcatcctt ccntgggant tgaagtttct acaaaagcaa 420

ttgcaaaagg gaca 434

<210> 612
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-14-Q1-B1-G7

<400> 612

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tcgcgatcct tcttccacct cttggagttt gtctcaaacg tggctgttgc actgtagagt 180

tcttgatttg cttggtgctg acaatcttag gatacatccc agggataatt tatgcactat 240

acgtgatcgt gtttcaaaac cgtgaaggct ctaccgaact tggagctcca cttaactcag 300

cttgatctgt tttggtccat tacacggatc aatatgttgt tgaaactgtt ttacttatca 360

tgtaccaaat aataagttgc tttgcaattt ttatgtattg aagatttgag 410

<210> 613
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-H10

<400> 613

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agttgagctc aagactcaga gggatattct tttgtgttgt tgctggcatt tcggctactt 180

ttctcattgt cctgatgatt attgggcatc cgttcgtcct tcncttcgat ccctatagga 240

gaaaattcca ccacttcatt gctaaacttt gggcttccat aagcatttan ccgttttaca 300

naatcancat cgagggtttg gagaatctgg catcatcang acactcctgc tgtatatgtt 360

tcaaaccacc aaagtttctg gatatctaca cacttcttaa gtcttgggaa a 411

<210> 614
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-H12

<400> 614

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gcttaatgcc ctagcgggaa aagttggcaa aagaatggac agcctcctgg tgcctttaga 120

attgctatgt tgcgtgtctc gtaccgagtt ctctgacaag aaagcatact tacgctggca 180

gaaaaggcag ttaaacatgt tagcagaggg gctcattaac aatccagttg ttggatttgg 240

agaatcaggt cgtaaggcaa ctgacctgaa gagtcttctg ctaaggattg aagaatcaga 300

gtctcttcca tcctcagctg gagaagtgca aaagagcaga atgtttaaaa tctcttagag 360

aanttgctat ctcactttgc tganaaaacc ggctcnttgg tgatttgacc ggttgaa 417

<210> 615
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-H3

<400> 615

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tcggctcgag agcaaaaccg cgagctctca tggcttccgg cggcaaagat tccgatcgta 120

ccttagggta catgacacgg aaagatacag aagtcaagct tccaagacct actcgtgtca 180

agaacaaaac tccggcgccg attcaaataa ctgccgaaca gatattaaga gaagctcgag 240

agagacaaga agctgagatc cgtcctccca agcaaaaaat cactgattcc actgagcttt 300

ccgactacag actccgccgg gngaaaggaa tttgaanacc aagattcgtc gcgcgagatg 360

gaacattcaa gtttgggtca aatacgctca atggggaaag agtcacaaga aagattacgc 420

tcgtgctcga aagttgtttt gggaaccaag ccatanaaag gnngattata gggaaccata 480

cgctttggnt c 491

<210> 616
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-14-Q1-B1-H6

<400> 616

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnccgc 120

tggacgtcga aacaacctgc ctcgtccaaa cctcagaaga cgatgtaagg tcaccgcttc 180

acgggctaat attgaacaag aaggtaacac agtgaaagaa cccattcaga atattaaagt 240

aaagggatac ataacggccc aagaagagtt tctggagggc ataacttggt ccaagaggtc 300

tcgatgacat tgctggatat ccgcgggnan antaattgct ccgtcgagct tattancgcc 360

aangactgga ccaaacggga nttacgggta gaagantang ncanaacngt gttatggggc 420

ccaaagnccc ct 432

<210> 617
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-14-Q1-B1-H7

<400> 617

ctcgaggttt ttttcagttc ttcccggaag caaatgaagt caaatttgct caaaagacag 60

tctttggagg aacttacttc aagttggact atctaacaaa accatctctt tttgaggatt 120

ttggtttctt tgagagagta aaaatggcag atcgagtgaa gccagaagac gaactgtttc 180

ttgtcgcata cccgtatttt aatgtcaacg agatgcttgt agtggaagag ctctacaagg 240

aagctgttgt gaacactgac cgaaaactaa tcatcttcaa tgggagaact tgaccgcata 300

cgatcggggt tgtatccttt ttcttctcat aaatgaaaca aagtagattc ctttttccat 360

ttgcatcaca acttgagaac caaatgagaa agctgaatca agagagagag act 413

<210> 618
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-15-Q1-B1-A5

<400> 618

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atagttggtt ctcttctcga ttcttagggg ttttagagac ttggtgctct tgatttcgag 120

tgatcataca gtattacaag gcatggacaa atcgagtggt ttggatttca tcaaccagat 180

gttcccagta gaagcttctc tatcttgtgt tgagtctttt atgcaaaaga tttgtgacga 240

gattcggcga gttgatgcta ccattttagc tgttgttagt caacagggta actccggaac 300

tagagctaaa gaaaatctta atgatgccat atgtgctgcg gaggaactct ctcataagat 360

acaagagata aaatcaaaag ccgaacaaaa ccgaagcaat ggtccaagac atat 414

<210> 619

<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-A7

<400> 619

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acaagaaggc actgaaagag gcaattggtc tcagcgagca gctcatgact ggccgccgtg 120

tactcatcaa agacgcaaag aacttcgagg gtcgtcctga caagtctgag agggaagcaa 180

atgcctccgg cgccgccgcc aagtccggtc acccccccgtc caagcggctc ttcgtcggta 240

acttgagctt cgatgtcacc aaggaggccc tcgaggaaaa tttcagcaag tgtggaacag 300

tcaacaacgt gcatatggct accttccang acacaggaaa atgcaaggga tatgcttggg 360

tggaattcga agagcttgcc gcancaagaa gcagcggtga gangatcatg ctaatga 417

<210> 620
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-A8

<400> 620

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gagcttcgag gtttctttca aggaatgtca gcttggcagt ttatcttagt agttactgca 120

agttcagttg gagaagagct cttctatcgt gctgcgtttc agggtgcact agctgatata 180

ttcctaaggg gcacagatct tatctcggat tctcgaggaa tggttgcttt gactggactc 240

ttgccaccat ttgtaccatt tgctcaaagt atttgcancc actaataaaa gccgctctca 300

cnggntcccc caacnacata gctgcttccc ctaaagatcc aacttanata annggaaccg 360

ggtcttgaaa actcnctctg cccgaaaaca acctgaanaa tttgtttgca ccgtggtatn 420

ac 422

<210> 621
<211> 201
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-15-Q1-B1-B11

<400> 621

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gcaatatttt gttgttatgt ctttgtagca atgcactgaa agctatattt aattacattg 180

ctgtacaaaa aaaaaaaaaa a 201

<210> 622
<211> 373
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-B2

<400> 622

tcgagnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaag tacttcgtct tacattacaa 60

atcttattta cacatgtaag tttttccatc taagnngcta ataataccac aaaccgtaat 120

ataacgtcca tttggtcaca ttctacacat tacacaacag acatcatcag cagtccaatg 180

cgacggtaaa aacctttaa aagtaacggc ggttacatat atattacaga ctttatttaa 240

ctttttttaa acttattttt tttcttttac tcatacgang cnaatgacan catcaagcat 300

ccacanatcc acctcggaan agggactcat caagcngagc cggtggcccg ccgtggtaac 360

ggtcanctca agg 373

<210> 623
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-B3

<400> 623

gggagagaca agatgcatgc gnccaggtcg actctagaag atcccctcgg ggaattccaa 60

ttccacattt tcaagaaata aggaggcaaa aatgttcata tatgaattgg aattatttgt 120

tttcttatta ggcctatcct gaagccaaag gaaatgagat cggaattcct cggggaattc 180

caattccaca ttttcaagaa ataaggaggc aaaaatgttc atatatgaat tggaattatt 240

tgttttctta ttaggcctat cctgaagcca aaggaaatga gatcggaatt cctcggggaa 300

ttccaattcc acattttcaa gaaataagga ggcaaaaatg ttcatatatg aattggaatt 360

atttgttttc ttattangcc tatcctgaag ccaaagggaa tgagatcgga atccccnggg 420

gtaacg 426

<210> 624
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-B4

<400> 624

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ttctctcttt atcctctccg cttggcaaat gttcaatgat ggtggtcctg cagctaaaga 180

attggctcca aagcttgatt tggttaaggc acatttatct tctagattag gagtaacatt 240

gcccaaaata gaggtgagac aagtcgttgc tactattatt gccctgaaag gagtcggagg 300

cttactcttt gttatcggaa acaccttccg gtgcttatcc ttctggcttc ctactttggt 360

ggtttttcgg tccctaatcc tcctatgaat ttctacaaac taacggacct caaggaacgt 420

taattttctc ctc 433

<210> 625
<211> 531
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-B9

<400> 625

gggggaatgt atccnaccgc gtcnagggcg atatnantcg catggncncg tacgtaagct 60

naagaattcg gctcgagcaa aagaagaaga gaaacaacaa gaagaagtaa tggcttcctc 120

tatgttctcc tccaccgctg tggttanctc cccggctcaa gccaccatgg tcgctccatt 180

caccggcttg aagtcatccg cttctttccc ggtcacccgc aaggccaaca acgacattac 240

ttccatcaca agcaacggag gaanagttag ctgcatgaag gtgtggccac caatcggaaa 300

gaanaagttt gagactctan cttacctccc tgaccttagt gacgttgaat tggctaanga 360

agttgactac cttctccgca acaagtggat tccttgtgtt gaattcnaat tggnncacgg 420

gtttgtgtac cgtnagcang aaacactccc ggatattaat gatggacgat aacggntcaa 480

tgttngaacc tccaattggt ccggatgcaa ccgaacccgc tcaaattttt a 531

<210> 626
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-C10

<400> 626

gagattcccg atcagatctc aacgacgacg agccatggct tcaactttca gcggcgatga 60

aactgctcct ttcttcggat tccttggcgc tgccgccgct ctcgttttct cctgtatggg 120

agcagcgtac gggacagcga agagcggggt tggtgtagcg tcgatgggtg tgatgagacc 180

agagcttgtg atgaaatcga ttgttcctgt tgttatggct ggagttttag gtatttatgg 240

tttgatcatt gctgttatca tcagtaccgg aatcaaccct aaggncaagt cctactatcc 300

attccatggc taagctcaat ctcctcctcc ggtccntgcc ttgtggtccc cgctggtcct 360

cctccgccgg tatggctaat ggaaattgtc cggcgatgcc ggtgttaaag ccaatgcaca 420

acaacctaag ttgtttgtgg gaatgattcc gaatcccaac cttgc 465

<210> 627
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-C11

<400> 627

agatttctct ggatttttca aaaatgtttc tccaatcgca aaaactatgg acgatgcttc 60

taattctagc gatttggtca ccaatttcac actcgcttca cttcgatcta cactcaggtc 120

gcacaaagtg tatcgccgaa gacatcaaaa gcaattcaat gactgttggt aaatacaaca 180

tcgataatcc tcacgaaggt caagctttac cacaaactca caaaatttcc gtcaaggtga 240

cgtctaattc cggtaacaat taccatcacg cggaacaagt agattcagga caattcgcat 300

tctcggctgt tgaagcaagg tgattacatg ggctggttca ctgctgttga tnaaaagccc 360

tgaaggttcn ttggagtaat tgactttgag tgggaagact gggggtcaaa ccaaaagccg 420

gggtaaagtt gctaaaaaga atccagtcca agtttat 457

<210> 628
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-C6

<400> 628

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ccaagcgaga gttctcagaa agcgagtcag tttcaggagc aagagttagc tcagggtcgt 120

gggacggcta atgtggtgcc tcaacctatg tgggcggttg cgccagggac tacgaatgga 180

ggtagtgcgt tctggatgct tccgatgagc ggttcgggtg ggcgggagca gatgcagcag 240

cagcctggtc accaaatgtg ggcgtttaat ccagggaatt atccagttgg gacaggacga 300

gtagtaactg caccaatggg gtcaatgatg ttgggaggtc aacagctagg attaggagtg 360

gcagagggca acatggcggc tgcaatgcct ggcaattana agcgatggtt tgggccatga 420

c 421

<210> 629
<211> 380
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-D1

<400> 629

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnaaccaag 180

cctcctccgt ccacccctaa acctcccacc aaacctcccc cgtccacacc taaacctccc 240

acgacnaagc ctcctccgtc tactccgaaa caacccacca cangcctccg gctacaacat 300

ggccaacnag aanaccaagg ncgnatccaa cagttgttan aacggcnata caacccancc 360

gtcattagtc aacaagcanc 380

<210> 630
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-D10

<400> 630

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taaccaccgg cgctgaccaa aaagtaatcg attctcttcc cgagctgatc tctcaggtgt 120

cttgaatctg aatctgtggc tatatttggt gctcggtggt gagcaggaag ggaggggggat 180

attgtcaggg ttttaatgta cgtcagatga atagagcaac taatgttact ggcagtagaa 240

ggaggggggtt tattctcagc gtccgcgtct gggtatagta agggattgac ccttcttttc 300

tctggtgata aagacgtana taggcccatg agagttgtcc cgtggaatca ctaccangtg 360

gttgaccaag agcctgangc tgancctgtt cttcanctgg attctattaa gaancgantt 420

tcccgcggtt gccctgcttc cttnaattgt tttgggggcg 460

<210> 631
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-D12

<400> 631

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tctctcttcc ttttcttcat tctcttcatc gtctctcttc tcancatctt atctttcatc 120

gtacggccaa gatccgtcac gatccccatc aagtttcgcc acgtcttcat caccggtgga 180

tcaagcggna tcggtctcgc tctcgctcan cgtgccgtct ccgaaggcgc taaagtctcc 240

atcctcgctc gttcaactga aaagctcgcc gaagccaaac gatccatcca agctagctac 300

cggtgtcgag gtcgccacgt tctctgcgga cgttcgcgat tatacgccgt ttcgaaagcn 360

attgatgaat cgggaccgat tgangtgttg antgntaatc aangngtgtt taatgggaaa 420

gagcttnaaa aacaangtcc tgaangaagg taaatttatg 460

<210> 632
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-D3

<400> 632

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agaaacgtta tggaccagga agcctgaaac gtacccantg cccatcggaa tgtgatagga 120

ggtgtaaaaa gacacagtac canaaggctt gcattacgtt ctgcaacaaa tgctgcagga 180

agtgtctctg tgtgcctccg ggttactatg ggaacaaaca angtttgctc ctgctacaac 240

aactggaaaa ctcaagaggg tggaccaaaa tgcccttgaa aaaatctcnc ttcgntcccn 300

ttttanaata aaantttttca actatnacta aatttccttt gatnaatgtt ttatntactn 360

aatcctaang ttgtnatgtt angtcactcn gtttccggat ttgatccaaa tccctaaaaa 420

a 421

<210> 633
<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-D6

<400> 633

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gttgtccggt ggaggaagtg gctcttgttg tgcctgagac ggatgatcca agcctaccgg 120

tgatgacatt cagagcttgg ttcttgggtc tgacctcttg tgttctgctc atctttctca 180

acacgttctt cacataccgt acgcagccac tcaccatctc agccatcctc atgcagatcg 240

ctgttttgcc catcggcaag ttcatggctc ggactcttcc caccacttct cacaaccttc 300

ttgggtggag ttttaacctc aatcctggtc cttttaacat caangnacat gtcaattaac 360

anncatcctt tggcaaattg ggg 383

<210> 634
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-E1

<400> 634

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caaccaagtg catgtctcta aacccatctc ctcctaaact ccaaaaccaa accaaatcca 120

aaccattcat ctccctacca accccaccaa aaccaaacgt ctctctcgcc gtcacaagca 180

ccgccctanc cggagccgtc ttctcttccc tcagctactc tgagccaagc tttagccatc 240

caaacagatc gctcagctcg ctgcaagcaa acgccagtag cgacaaccgt ggcttagctc 300

ttctccttcc catcgtccca gccattgcat ggggtcctta aacatcctcc aancaagctn 360

tttaccaagt tcaacaaaga atgcnttgag aattaaangg tanccttttgt tgggccaang 420

naattggngg ggngggcctt ggcaccgtc 449

<210> 635
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-E2

<400> 635

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ggcctttcag gaagaagggt tacattcctc tatcgactta cctgaggacc ttcaaggtcg 120

gcgattacgt cgatgtgaag gtgaatggtg cgatccacaa gggtatgcct cacaagttct 180

accatggtcg tactggtcgt atctggaacg tcaccaagcg cgccgtcggt gttgaagtca 240

acaaacagat tgggaacagg atcataagga agaggattca tgttcgtgtg gagcatgtgc 300

agcagtcaag atgtgccnan gaattcaaag ctgaggaaag aaagaaaaac gatgaactca 360

aaggctgcaa nccaaaagcc aattggtgag aacatcanca accaaagnga ncaacctaaa 420

agggncccaa accaaggttt cagggnccaa gggaa 455

<210> 636
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-E7

<400> 636

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cttgacactt ctcttgccat tcactttcac caccgccaca cgtgacacat gtgcgaccgc 120

cgctcccgat ggttccgacg acctctcaat catccccatt aacgccaaat gctcaccttt 180

cgcacccact cacgtctctg cctccgtgat agacacggtc cttcacatgg cctcctcaga 240

ctcccatcga ctcacctacc tctcaagcct cgtcgccggc aaaccaaaac ccacctccgt 300

ccccgtcgcc tccggtaatc aagctccaca tcggaaacta cgtggtccga gccaaaactc 360

ggnactcctc canaagctaa tggttcaagg gcctaanaaa caagttaacg angccgtttt 420

gggtcccttg ccccngg 437

<210> 637
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-F1

<400> 637

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taaagctctt gagagattcg gagaccaaat cgcaattgct tttagtggag ctgaagatgt 120

tgcattgatt gaatatgcac gtttaactgg aaagccattt agggttttta gtttagatac 180

agggagatta aaccctgaaa cgtacaggct ctttgacgca gtcgagaagc agtacgggat 240

tcgaattgag tacatgtttc ctgatgcagt tgaggttcaa gctttaagtg aggaacaaag 300

ggtttgttct cattctaaga agatgggtca tcaaagagtg ttgcccgtgt gaaggaaagt 360

tagacctttg cgtcctgccc ctaangggcn ttaaagcntn gnttacaagg gcaaaangga 420

aaaaaccaat cncccgg 437

<210> 638
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-F2

<400> 638

cgaagtgaaa agatgagctg caatggttgc cgtgttctcc gggaaaggtt gcagcgagaa 60

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ccgtcttcgt cgctaaattc ttcggccgtg ctggtctcat gtcctttatc tccgctgttc 180

cggattctca acgtcctgct ttgtttcagt cgttgctcta cgaagcttgt ggaagaactg 240

tcaatccagt taacggagca atcggaatgt tatggactgg aaactggaat atctgtcaag 300

cggctgttga aacagtgctt cgcgggggtt ctttaagacc gattccggag cntctcaatc 360

acgggggggg tttccccggg ttttccttgg ccaaaattta anaaac 406

<210> 639
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-F4

<400> 639

cgccngccag agacaaactt acatgcctgc aggtcgactc tagaggatcc cctccgggga 60

attccaattc cacattttca agaaataagg aggcaaaaat gttcatatat gaattggaat 120

tatttgtttt cttattaggc ctatcctgaa gccaaaggaa atgagatcgg aattcctcgg 180

ggaattccaa ttccacattt tcaagaaata aggaggcaaa aatgttcata tatgaattgg 240

aattatttgt tttcttatta ggcctatcct gaagccaaag gaaatgagat cggaattcct 300

cggggaattc caattccaca ttttcaagaa ataaggaggc aaaaatgttc atatatgaat 360

tggaattatt tgttttcnta atangcctat cccgaagcca aagggaaatg anatttggga 420

atccccccngg gggtaccgaa ct 442

<210> 640
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-F5

<400> 640

agcctcaatt tccaagcaga gatgacggtg aagataaggc tcgcgcgtct tggttgtaaa 60

caccgaccct tctatcgtgt agttgtcgcc gatgaaaaat cgcgcaggga cggtaaacaa 120

atcgaggtgt taggctttta tgatccactc caaggcaaag aagatgcgga tagagtgagc 180

ctcaaattcg acagaatcaa gtactggtta tctgttggag ctcaaccaac agacacagtg 240

gaaagcatgc ttttcagggc cggtttgata ncaccaaagc ctatggtagt gggtcggttc 300

gaaaaatggg cagaatctac gagccaacat gtttcaccca ttacangtga aatcntgaac 360

taaaaantgt tgatgcgttn agcaanaaan aaccntttgg ggccggtttt aaaaggattt 420

aagtt 425

<210> 641
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-G1

<400> 641

gagagcttcc accgaatcgt cgttgtatca actgcaatag ccttggccct caatatgttt 60

gcacaacttt ctggaccttc gtatgcatgg cttgtagcgg gatacaccgc gaattcactc 120

atcgtgtgaa atctgtgtca atgtcaaagt ttacttctaa agaagttgaa gtacttcaaa 180

atggtggtaa tcagcgcgcc cgagaaatat atttgaaaaa ctgggaccac caacgacaga 240

ggcttccaga aaacagtaat gctgagagag ttcgcgaatt tatcaaaaat gtgtatgtgc 300

aaaagaaata tgcaggcgca aatgatgcgg gcaagccctt cgaaaagata ncaggacaag 360

ttaagttctg aagatatgac acnacgggca aantcctaac aatcctaatc ccaaagncct 420

c 421

<210> 642
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-G3

<400> 642

gagattcctc ttcaaaggca aacaatttac acagctatat atatattttt agggtttttg 60

agtatctcgc gaggttttac atagatttct ccattatgga ttcgatgatg aatcagaaga 120

ctgttttggc tgtgacggat gatgtggtgt tacctgttag ctctgtttta gctataatga 180

aagagcttgg aaaggaagtg attgagagtt ttgatcctct gattattact caagcatcca 240

caataaatca gtttcctttg gatgcttcct ctgtggaggc ggtattancc atttccaaaa 300

catctgattt cccaaagtga taaaatatgt ggtgaattct caagaaacct tgaaacctgg 360

cggcacgggt ttcggtgtgc aaantttttgg angggttaaa acggg 405

<210> 643
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-G4

<400> 643

cgagcgaaga agattctcct tctctccgtc agacaaatct acgaacaagc gagcctgagc 60

ttaagaccaa actcatagag atgggtttct tctcttttct tggaagagtt ctcttcgctt 120

ctctctttat cctctccgct tggcaaatgt tcaatgatgg tggtcctgca gctaaagaat 180

tggctccaaa gcttgatttg gttaaggcac atttatcttc tagattagga gtaacattgc 240

ccaaaataga ggtgagacaa gtcgttgcta ctattattgc cctgaaagga gtcggaggct 300

tactctttgt tatcggaaac accttcggtg cttancttcc ggcttcctac tggtggtttt 360

cggtcctaat cccnaagaat tccaaaacta nngncctcaa gggangtnaa ttnccccccc 420

ccggttaaaa aatttctgg 439

<210> 644
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-G6

<400> 644

ctcgagtctc attctctctc gctctggcac agtagaaact gagctcacga aagcaggtag 60

tcagtgtttt tgtttcgaac tcttccaaca tgcagaagga aattgctggt gatgctccat 120

cagcaccaac cactcgtgtt cggcatcgga agcgaaacag cgatgttggt gcaggggcag 180

gcaaaccaaa tggaaaccat ttacttgtca atgacagcaa aaaatacaaa tcgtttctca 240

ttcgagcata ctccactttc tggatgatag gtggttttgc tcttatagtt tacctgggtc 300

atctctacat tacagccatg gtggttgtta ttcagatatt catggnacga gaacttttta 360

atttgctgag aaaaactcat gnagatnaan aaatcccngg gtttnaantn nagngaaatt 420

gggaatttct ttttaana 438

<210> 645
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-G7

<400> 645

ctcgagacag aggaaagcat ctcgtctaga aataactatt tgaacaatgg aggaatatgg 60

agtatgtccg gtatgaatgc agcagatgct agaagatata gcatgagtgt ccagatgtac 120

agaggtggag gtggcggcgg aggatctgaa agaccaagaa ctgctcctcc agatttgcct 180

tctttgctat tggatgctcg catatgctac cttggcatgc caatcgtacc tgcagttact 240

gagttactcg ttgctcaatt tatgtggtta gactatgata acccaacaaa gcccatctac 300

ttatatataa attcacccgg gacccagaat gagaagatgg aaactgttgg atnagaaaca 360

gaggnttatg ccataaccca tacnaattcc taatgccaat 400

<210> 646
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-H1

<400> 646

gagtataagt tatgaaaggt aatcgaaaag tatgcggatt cagtggaagg atgaaagaaa 60

gagagaaaaa attgaatatt aatgatatat tattccaatt tggaaagtct atgaggtcac 120

tgtaagaaaa gcaatgtaat aaagcatcaa tacagattca ttcagaataa ttagataaat 180

ctgttccgaa aacaaaaaaa atttaagagc cttgagccaa taaaaactaa gaaaattgac 240

tcaaaaacaa ataaaaaaaa tgaaattccc gatttcatat aagagctcca ttgtagaatt 300

cgggcctaat gattaatcaa gaagcgatgg gaacgacggg aaccatgaat atagagggat 360

ccaattggaa aattaatcta anaantcaat tgggcaangg ttgngggata aacccannnt 420

tattaccaat cctaatttt 439

<210> 647
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-H4

<400> 647

cgaggagttc cccggtgatt acnggtggga cactgccggt ctatccgccg atcccgagac 60

cttcgctagg aaccgtgagc tanaagttat ccacagcaga tgggccatgc tcggagccct 120

aggctgcgtt ttccctgagc tattggctag gaacggagtg aanttcggag aagcggtttg 180

gttcaaggct ggttcacaga tcttcagcga cggangattg gactacttgg gcaacccgag 240

cttggtccac gctcagagca tcttaaccat ttgggctact caagttatcc tcatgggaac 300

tgttgaaggc tacaaantcc cccggagatn gtccaattgg gagaaagcag aggacttgcc 360

ttaaccaagt tgggagcttc nacccaattg ggcctcgcta acggaccccc aagggnttcc 420

ccggatttaa aggtaang 438

<210> 648
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-H5

<400> 648

gagtagcaag gtatcattgg ttagagctgt gtcgtacatg gtggctcagt gtctcggagc 60

cacttgtgga gttggtttgg tgaaagtctt ccagtcgact tattacaacc gctacggtgg 120

tggagccaac atgctctccg acggatacaa tgttggcgtt ggggttggtg ctgagattat 180

cggcactttt gtcctcgtct acaccgtctt ctccgctacc gaccctaagc gaaatgcccg 240

tgactctcac attcctgtat tagcaccatt gccaattgga ttttccgtgt tcatggttca 300

tttagccaca attccaatta ctgggcaccg gaataaaccc ggctangagt tttgganctg 360

ccgtcatcca naacaatcaa a 381

<210> 649
<211> 155
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-032-Q1-E1-D10

<400> 649

gccgacaaca agtttcccct ttttttttgg ttgctcattt gtttgaagag tacaacgcta 60

aacagaacag agaaagtaaa atcaggaggg aaactagcgc cacagagtaa ttcaagtttc 120

atgaacaatg gagaagacaa gcacaacctt caaaa 155

<210> 650
<211> 300
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-032-Q1-E1-F7

<400> 650

caacagaagt ccctaacact gggatgccaa aaacaagttt ccccttttt tttggtttct 60

catttgtttg aagagtacaa cgctaaacag aacacacaaa ataaaatcaa gagggaaact 120

aaaccaaaaa ctaatttaag tttcatgaaa aatggagaaa acaagcacaa ccttcaaaag 180

ccaataaccc ttattaatac tgatatttgg tcaacttcat cagaagacca atatctcaaa 240

ctgttccact ctcgcaccac agaccagcac aaaatcacaa gtagatccga acctgaaccg 300

<210> 651
<211> 320
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-025-Q1-B1-C5

<400> 651

gcaagcagta agtaggagac tacagtatga ttacctccca cgcatttgga tgacaaggtt 60

acagtacctc acttaggcaa tcttggaccc aagcgtacag ggctgtcaaa ggaccaatct 120

gactacttca gcattccaat tgcgggacca tacaatcctc atcaccagag gtacttgata 180

gagatagaga gtcgacttcg cggttcatgt tcggatccac atgtagtttt gtgttgggtt 240

gtggtgggag agtggaacag tgtcagatat tggtcatcgg acgaatttaa ccaggtatca 300

gtactagtac gggttattgg 320

<210> 652
<211> 307
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-01-Q1-E1-G6

<400> 652

gccgaaaaca agtttccccc tttttttgg tttctcattt gtttgaagag tacaacgcta 60

aacagagcac acgggataaa atcaagaggg aaactaaacc aaaaactaat ttaagtttca 120

tgaaaaatgg agaaaacaag cacaaccttc aaaagccaat aacccttatt aatactgata 180

tttggtcaac ttcatcagaa gaccaatatc tcaaactgtt ccactctccc accacaaccc 240

aacacaaaac cacaagtaga tccgaacctg aaccgctttg tcgactctct ctctctctca 300

gtacctg 307

<210> 653
<211> 314
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-032-Q1-B1-D10

<400> 653

ttgacatgct tggacttgag acttaccctg gtgtgaagcg tatcaccatc aagccacaga 60

ctgacaggtg ggtgttccca gagaccaagg ctggaatcat tgtcttggct gagggtcgtc 120

tcatgaactt gggttgtgcc actggtcacc caagtttcgt gatgtcgtgc acgttcacca 180

accaggtgat tgcccagctc gagctctgga acgacaaagc aagcggatag taccagaaga 240

aggtgtacgt tcttccccag cattttgatg acaaggttgc attagtctca cttgggcaag 300

cttggagcca ggcg 314

<210> 654
<211> 368
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-A3

<400> 654

aagcaagcgg aaagtacgag aagaaggtgt acgttcttcc caagcatttg gatgagaagg 60

ttgcattact tcacttgggc aagcttggag ccaggcttac aaagctgtca aaggaccaat 120

ctgactacgt cagcattcca attgagggac catacaagcc tcctcactac aggtactgag 180

agagagagag agtcgacaaa gcggttcagg ttcggatcta cttgtggttt tgtgttgggt 240

tgtggtggga gagtggaaca gtttgagata ttggtcttct gatgaagttg accaaatatc 300

agtattaata agggttattg gcttttgaag gttgtgcttg ttttctccat ttttcaagan 360

acttaaat 368

<210> 655
<211> 361
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-021-Q1-B1-H2

<400> 655

gttcgacaac ttgtatggtt gccgtcactc actccctgat ggtctcatga gggccactga 60

tgtcatgatc gctggaaagg ttgctgttat ctgtggatat ggtgatgttg gaaagggttg 120

tgctgctgcc atgaagactg ctggtgctag agtcattgtg actgagattg atcccatctg 180

tgcccttcaa gctttgatgg aaggacttca ggttcttacc cttgaggatg ttgtctcaga 240

agctgatatc tttgtcacca ccaccggtaa caaagacatc atcatggtcg accacatgac 300

gaagatgaag aacaacgcta ttgtgtgcaa cattggtcac tttgacaatg agattgacat 360

g 361

<210> 656
<211> 378
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-06-Q1-B1-C9

<400> 656

tctgtcacca agagcaagtt cgacaacttg tatggttgcc gtcactcact ccctgatggt 60

ctcatgaggg ccactgatgt catgatcgct ggaaaggttg ctgttatctg tggatatggt 120

gatgttggaa agggttgtgc tgctgccatg aagactgctg gtgctagagt cattgtgact 180

gagattgatc ccatctgtgc ccttcaagct ttgatggaag gacttcaggt tcttaccctt 240

gaggatgttg tctcagaagc tgatatcttt gtcaccacca ccggtaacaa agacatcatc 300

atggtcgacc acatgaggaa gatgaagaac aacgctattg tgtgcaacat tggtcacttt 360

gacaatgaga ttgacatg 378

<210> 657
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-032-Q1-B1-F7

<400> 657

cggctcgagc cacgccgccg cagccatcgc tcgtgactcc gccgctgttt tcgcctggaa 60

aggtgagact cttcaggagt actggtggtg taccgagcgt gctctagatt ggggtccagg 120

tggtggtcct gatctgattg ttgatgatgg tggtgacgct actcttttga ttcatgaggg 180

tgttaaagct gaggagatct ttgagaagac tggtcaagtt cctgatccta cttctactga 240

taaccctgag tttcagatcg tgttgtctat tatcaaggaa ggtcttcaag ttgatcctaa 300

gaagtaccac aagatgaagg agagacttgt tggtgtctct gaggaaacta ccactggtgt 360

taagaggctt taccagatgc agcaaaatgg aactcttttg 400

<210> 658
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-01-Q1-B2-G6

<400> 658

gaacaacgct attgtgtgca acattggtca ctttgacaat gagattgaca tgcttggact 60

tgagacttac cctggtgtga agcgtatcac catcaagcca cagactgaca ggtgggtgtt 120

cccagagacc aaggctggaa tcattgtctt ggctgagggt cgtctgatga acttgggttg 180

tgccactggt cacccaagtt tcgtgatgtc ttgctctttc accaaccagg tgattgccca 240

gctcgagctc tggaacgaga aagcaagcgg aaagtacgag aagaaggtgt acgttcttcc 300

caagcatttg gatgagaagg ttgcattact tcacttgggc aagcttggag ccaggcttac 360

aaagctgtca aaggaccaat ctgactacgt cagcattcca attgaggg 408

<210> 659
<211> 373
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-023-Q1-B1-D2

<400> 659

ggcgtttgct gcccagaagg tcgttgaagt gaacgctttg gccaaggctt tggctggtca 60

gaaggacgag gctcttttct ctgccaatgc tgcggctttg gcttcaagga gatcttcccc 120

aagagtcacc aacgagggtg tccagaaggc tgctgctgct ttgaagggat ctgaccaccg 180

tcgtgcaacc aatgttagtg ctaggctaga tgctcagcag aagaagctca atctcccaat 240

cctaccaacc acaaccattg gatccttccc acagactgta aagctcagga gagttcgtcg 300

tgagtacatg gccaaaaagg tctcacagga ggacaacttt aaaccaatca aggaaaaatt 360

cacaaaattt gtt 373

<210> 660
<211> 384
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-14-Q1-B1-H1

<400> 660

ccaaggcaat gaccgtcttc tggtccgcaa tggctcagag catgacctct cgcccaatga 60

agggtatgct tactggtccc gtcaccattc tcaactggtc ctttgtcagg aacgaccagc 120

ccaggcacga aacctgttac cagatcgctt tggccatcaa ggacgaagtc gaggatcttg 180

agaaaggtgg aatcggtgtc attcagattg atgaggctgc acttagagaa ggactaccac 240

tcaggaaatc cgagcatgct ttctacttgg actgggccgt tcactccttc agaatcacca 300

actggtgagt ccaagacagc aaccagattc acaatcaaat gtgctactcc cacttcaaag 360

acatcataca ctccatcatc gaca 384

<210> 661
<211> 243
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-027-Q1-B1-G5

<400> 661

aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaaaattaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaacat ggggtaatag aaaaataggg ccggcccccа cctattaacc tcttcacccc 120

ggaatttatt tccggccttt tcctgcttgg gttaccagtt ttcctaatgt taatccctttt 180

catcccttgg gttatccagg gacaaaattt ttcctggttt aaatttttta cccgtcgcaa 240

ttt 243

<210> 662
<211> 223
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-025-Q1-B1-A12

<400> 662

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggcagac 60

aaaaaataaa aaaactaatt aaactgggaa taaattaaag tggggtacgg ggaggaattc 120

ttcctttccc tgtaaagatt ggttttactg cttgcattca tcgtcgtcgg tggctgtttc 180

gtgtgtgcaa ttgttagccg ctcattgttg gatacagtca ttt 223

<210> 663
<211> 342
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-028-Q1-B1-C12

<400> 663

acttgcggta ccactaagct cctcctctct atcccatcac ttctaaagct ggctggtgag 60

ctctctctga gtgtcaagtc tgtgaagtac actcgcggtt ccttcctctg ccccggaggc 120

cagccttttc ctcaccgcag cttctctgaa gaagtctctg ttcttgatgg gcactttact 180

catctgggct tgcagagcgt agcctacatg atgggcaatg atgatgatag taacaattgg 240

catgtctatg ctgcctctgc cgatgactct agcaagtgca acaacaatgt ctatacactc 300

gacatgtgca tgactggact ggacagacag aaagctgctg tc 342

<210> 664
<211> 297
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-028-Q1-B1-A2

<400> 664

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gtcttgcggt tttctgaatc atctctatct ggtttgaggg tttcgtttga tatctggaga 120

aaggggtttc tggaaacaag gagttcataa ttcgcgatct tgatctatcg atcttcattt 180

atatataaaa gcgtgaatga gattatgatg gagtcgaaag gtggtaaaaa gaagtccagc 240

agtagtagtt ccttatttta cgaagctcnc ctcggttaca gcattgaaga cgttcgt 297

<210> 665
<211> 342
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-022-Q1-B1-D5

<400> 665

acaagccaga gattactgta gacttggaag actatgggtg cagagagagg acatttgagt 60

ctctaggaga agagagtgga acagtgatgt atcagacgtt tgagaagctt ggtaagtact 120

gtggatcgcc tagatctacc ttgaagtgtg aatggagcag caacaatagc tgcagcagcg 180

aggacgagaa ggacgaggga atctagcaga atttttcttc ctaataacta ttttcgagct 240

ttctgttttt gttctttctt tttaaaaaac ttattaagtt cttatgaata atgacttgtg 300

aagtttgagt tcgtctcctt cacaagcaag ttgtattggt gt 342

<210> 666
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-14-Q1-B1-C3

<400> 666

atcctgagta ccagcgtgca ccgatcttca taatatagtt atagctttct ttactttcca 60

gtttataatt ttcttctttc aaagctcctt ttctgctggt tcccggatcc aatcgttctc 120

tcctcctact acaagtcctg tcgctcacac aacaaggcga gatggcctta tctgcaatcg 180

gtttcgaagg ttacgagaaa cggctcgagg tgactttctt tgagccaagc atctttcaag 240

actccaaggg actgggactc cgtgctctga ccaagtccca gcttgatgaa attcttacac 300

ctgctgcatg cacgatcgtt tcatctctct ccaacgatca attggactct tacgtactct 360

ctgagtccag cttctttgtc tacccctaca aagtcatcat caagac 406

<210> 667
<211> 236
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-10-Q1-B1-F5

<400> 667

attgattcca gacaaggaga tactaaagat tgtgaaggag agcttcgact tcagaccagg 60

aatgatgaca attaaccttg acctaaagag aggaggaaac ggaaggttct tgaaaactga 120

ggtttgtccc aactgtgtga catgcctacc tcacatcacc tgtgaagtcg gcatcccact 180

caagtgcggg acaccgcagg cttaaattta cctactctgt ttctgtcttc attcca 236

<210> 668
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-09-Q1-B1-C5

<400> 668

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cttcttcgag atctgatcgc cgaatctcag aatctcccat cgaagcagaa tggagacttt 120

tctattcaca tctgagtctg taaacgaggg acacccagac aagctctgtg accagatctc 180

tgatgcagtc ctcgatgcct gccttgaaca agaccctgac agcaaagttg cttgtgagac 240

atgcaccaag accaacatgg tcatggtctt tggtgagatc actaccaagg ctactgttga 300

ctacgagaag attgtccgtg acacctgtcg cgccattgga attgtctctg aagatgttgg 360

tcttgatgct gacaaatgca aagtcctagt caacattgag caacag 406

<210> 669
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-11-Q1-B1-F10

<400> 669

ctcttttaac acttgttctt ttaaggcaaa aaggctcgag ccacagagat ctgagtttct 60

cttcttcgag atctgatcgc cgaatctcat aatctcccat cgaagcagaa tggagacttt 120

tctattcaca tctgagtctg taaacgaggg acacccagac aagctctgtg accagatctc 180

tgatgcagtc ctcgatgcct gccttgaaca agaccctgac agcaaagttg cttgtgagac 240

atgcaccaag accaacatgg tcatggtctt tggtgagatc actaccaagg ctactgttga 300

ctacgagaag attgtccgtg acacctgtcg cgccattgga tttgtctctg atgaagttgg 360

tcttgatgct gacaaatgca aagtcctagt caacattga 399

<210> 670
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-E9

<400> 670

gcagctaaga gcgttgtggc taacgggatg gctcgtaggg ctcttgttca ggtctcatac 60

gccattggag tccctgagcc attgtctgtc tttgtggaca cttatgagac tggattgatt 120

ccagacaagg agatactaaa gattgtgaag gagagcttcg acttcagacc aggaatgatg 180

acaattaacc ttgacctaaa gagaggagga aacggaaggt tcttgaaaac tgcggcttac 240

ggacactttg gaagagacga ccctgacttc acctgngaag tcgtcaagcc actcaagtgg 300

gacanacctc aagcttaaat ttttactact ctgtttccgt cntcaatcca caaaccaatt 360

atctggtcaa ttttttaatt ccccgttttt gggggttaat gggttt 406

<210> 671
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-02-Q1-B1-F10

<400> 671

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aaaatggaat ctttttttgtt cacatctgaa tccgtcaacg agggacatcc cgacaagctt 120

tgtgatcaga tctccgacgc tatcctcgat gcttgccttg aacaagaccc tgagagcaaa 180

gttgcttgtg agacttgtac caagactaac atggtcatgg tttttggaga aatcaccacc 240

aaggctaacg ttgattacga gcagattgtt cgtaaaacat gccgtgagat tggattcgtc 300

tctgctgacg ttggtctaga tgctgacaat tgcaaggttc tggttaacat tgagcaacag 360

agtcctgaca ttgcacaagg tgttcatggt catctcac 398

<210> 672
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-01-Q1-B2-F4

<400> 672

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aaaatggaat ctttttttgtt cacatctgaa tccgtcaacg agggacatcc cgacaagctt 120

tgtgatcaga tctccgacgc tatcctcgat gcttgccttg aacaagaccc tgagagcaaa 180

gttgcttgtg agacttgtac caagactaac atggtcatgg tttttggaga aatcaccacc 240

aaggctaacg ttgattacga gcagattgtt cgtaaaacat gccgtgagat tggattcgtc 300

tctgctgacg ttggtctaga tgctgacaat tgcaaggttc tggttaacat tgagcaacag 360

agtcctgaca ttgcacaagg tgttcatggt catctcacca agaag 405

<210> 673
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-024-Q1-B1-G8

<400> 673

gctaaactca ctgaagttcg caagaatgga acttgccctt ggttgaggcc agatggtaag 60

actcaagtca ctattgagta catcaacgaa agcggagcca tggttcctgt acgtgtccac 120

actgttctca tctcaacaca gcatgacgag actgtgacta acgatgagat cgcagctgat 180

cttaaggagc atgtgatcaa gccagtgatc ccagagaaat accttgatga gaaaaccatc 240

ttccatctca acccatctgg tcgttttgtt atcggaggtc ctcatggaga tgcagggctt 300

accggccgta agatcatcat cgatacttat ggtggttggg gtgcacacgg aggtggtgct 360

ttctctggaa aggacccaac c 381

<210> 674
<211> 357
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-01-Q1-E1-F4

<400> 674

accatataaa taattatata aattcccagc tgcttagctt ttttcttcaa agttgaaaac 60

aaaatgaata aacccagctc agggttgaaa ctaaagaggc agaaagagcc taaaatacag 120

agaacaagac tgattctgga cagaagtgaa acagaggctg acaggtttca agcttggacc 180

ttgttagact tgagtggctt gactacctcc caggtgaaat cagcatcgtc ccttccaaag 240

tgaccatagg cagcagtctt caagaaccta ccattacctc ctctcttcag atccaagtta 300

atggagatca tacctggcct gaaatcaaaa ctctccttca aaatctcaaa aatctcc 357

<210> 675
<211> 353
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-02-Q1-E1-F10

<400> 675

gagactaatg tcgaatatta ttctctgaga tgggtgttct tcgcaaaagg ggtaagaaat 60

acatattatg aatttaactt tcttagcaca agaataccat ataaataatt atataaattc 120

ccagctgctt agctttttc ttcaaagttg aaaacaaaat gaataaaccc atctcagagt 180

tgaaactaaa gaggcagaaa gagcctaaaa tacagagaac aagactgatt ctggacagaa 240

gtgaaacaga ggctgacagg tttcaagctt ggaccttgtt agacttgagt ggcttgacta 300

cctcccaggt gaaatcagca tcgtcccttc caaagtgacc ataggcagca gtc 353

<210> 676
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-15-Q1-B1-H9

<400> 676

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agagatatac tttcttttga ggatcagatc gtgacagggt ttagctcaag gagaggtatt 120

agatccgtac tttgtgataa actttctcaa gggtgagaaa aagaagaaga aggtgagaca 180

tgtgaaggca aggctttgag gatgtctttt acaggaactc aacagaaatg caaggcttgt 240

gagaagactg tttatgctgt tgagcttctc tctgctgatg gagttggata tcacaagtct 300

tgcttcaaat gcactcactg caaaagcagg cttcagctga gtagttactc atcaatggca 360

ggtgtattgt cctgtaagcc tcattttgag cagctcttta atgagagtgg cagtttcaac 420

aacaact 427

<210> 677
<211> 286
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-029-Q1-B1-C2

<400> 677

ctttcttttg aggatcagat cgtgacaggg tttagctcaa ggagagggtg agaaaaagaa 60

gaagaaggtg agaaaagtga aggcaaggct ttgaggatgt cttttacagg aactcaacag 120

aaatgcaagg cttgtgagaa gactgtttat gctgttgagc ttctctctgc tgatggagtt 180

ggatatcaca agtcttgctt caaatgcact cactgcaaaa gcaggcttca gctgagtagt 240

tactcatcaa tggaaggtgt tttgtactgt aaacctcatt ttgagc 286

<210> 678
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-022-Q1-B1-H10

<400> 678

ctcaaaacca aaatcactaa agaggagaag attgctaaag tttgataaaa cattccaaaa 60

tcaatggctg ataggatcaa aggtccatgg agtcctgaag aagacgagca gcttcgtagg 120

cttgttgtta aatacggtcc aagaaactgg acagtgatta gcaaatctat tcccggtaga 180

tcggggaaat cgtgtcgttt acggtggtgc aaccagcttt cgccgcaagt tgagcatcgg 240

ccgttttcgg ctgaggaaga cgagacgatc gcacgtgctc acgctcagtt cggtaataaa 300

tgggcgacga ttgctcgtct tctcaacggt cgtacggaca acgccgtgaa gaatcactgg 360

aactcgacgc tcaagaggaa atgcggcggt tacgaccatc ggggtta 407

<210> 679
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-022-Q1-B1-D1

<400> 679

accaaaatca ctaaagagga gaagattgct aaagtttgat aaaacattcc aaaatcaatg 60

gctgatagga tcaaaggtcc atggagtcct gaagaagacg agcagcttcg taggcttgtt 120

gttaaatacg gtccaagaaa ctggacagtg attagcaaat ctattcccgg tagatcgggg 180

aaatcgtgtc gtttacggtg gtgcaaccag ctttcgccgc aagttgagca tcggccgttt 240

tcggctgagg aagacgagac gatcgcacgt gctcacgctc agttcggtaa taaatgggcg 300

acgattgctc gtcttctcaa cggtcgtacg gacaacgccg tgaagaatca ctggaactcg 360

acgctcaaga agaaatgcgg cggttacgaa catcggggtt a 401

<210> 680
<211> 365
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-019-Q1-B1-G3

<400> 680

aaatcactaa agaggagaag attgctaaag tttgataaaa cattccaaaa tcaatggctg 60

ataggatcaa aggtccatgg agtcctgaag aagacgagca gcttcgtagg cttgttgtta 120

aatacggtcc aagaaactgg acagtgatta gcaaatctat tcccggtaga tcggggaaat 180

cgtgtcgttt acggtggtgc aaccagcttt cgccgcaagt tgagcatcgg ccgttttcgg 240

ctgaggaaga cgagacgatc gcacgtgctc acgctcagtt cggtaataaa tgggcgacga 300

ttgctcgtct tctcaacggt cgtacggaca acgccgtgaa gaatcactgg aactcgacgc 360

tcaag 365

<210> 681
<211> 377
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-02-Q1-E1-G10

<400> 681

gaaaaacacc atcatagttc ttaaaaatcg tcttaccaac tcaacaacat aaaatcccag 60

atggatccaa tagaaacgga gaacataaat cagaaaacca aaatctttgc ctagatataa 120

gagactttgc gatgacgaga gcatcattac tgactagcgc caagccactt ggtgaagtta 180

tcgaactcgg tgtagtcact gtctgaaatc atagtctgat accaagcctt gcctgctgct 240

ttgatcgctt gggcctcctc cttagtgacg actttcctct tcttctcgag cctctccttc 300

ttagccttaa cccttgaagc ttcagccaac agagacattc tctttgcggt cttagcataa 360

ggattcaact tgaacat 377

<210> 682
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-033-Q1-B1-A7

<400> 682

aagagaatgg caactttgaa ccggtcaaga aatatacaat tcggaatttt ccgacagaga 60

ctttggccaa aatggtcaaa accggtaccc taacccttaa ccaaccaacc cagttcctgg 120

tacaatttga cagctcaatg actgaactct ctggagagcc atgtgaagac cagtgtgtcc 180

atcaggggac acctgcacac ttacaggttc tgtgacaatg tctggacctt catattacag 240

gacgcaatgt tcaagagtga cgatcgtcaa gagaatgtga cccgggtgaa gatagtggca 300

tgtgattcga agctgctcac acagtgaaga tgcaaattgt ctgcagggaa tttaccttcc 360

ctttgtacta gatttttgag ttctctcacc tttgtaaact cagcacttgc t 411

<210> 683
<211> 387
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-12-Q1-B1-C2

<400> 683

gagtctttta gtctgatctc ttacaagaat ggcgttcgca ggaacaaccc agaaatgcat 60

ggcatgtgac aaaacagttt atcttgtcga caagttaacc gccgataacc gggtccacca 120

caaagcttgt ttccgatgtc accattgcaa aggaactctc aagcttagca attacaactc 180

ctttgaagga gttctctact gcagaccaca tttcgatcaa aacttcaaga gaactggaag 240

tcttgagaaa agcttcgaag ggacaccaaa gattgggaaa cctgataggc ctttggaggg 300

agagagacct gctggaacca aagtttcgaa tatgtttggt ggaacacgag agaaatgcgt 360

tggttgcgac aaaaccgtgt atccaat 387

<210> 684
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-031-Q1-B1-E8

<400> 684

aagagaacaa acgtcgtacg cttcagaaaa acgatatcgc tgctgcgatt actagaaccg 60

atatcttcga tttccttgtt gatattgttc ctagggaaga gatcaaggaa gaggaagatg 120

cagcatcggc tcttggtgga ggaggtatgg ttgctcccgc cgcgagcggt gttccttatt 180

attatccacc gatgggacaa ccggcggttc ctggagggat gatgattgga agaccggcga 240

tggatcctag cggtgtttat gctcagcctc cttctcaggc atggcaaagc gtttggcaga 300

attcagctgg tggtggtgat gatgtgtctt atggaagtgg aggaagtagc ggccatggta 360

atctcgatag ccaaggttga gctatggaac ca 392

<210> 685
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-14-Q1-B1-A11

<400> 685

ttcttcccaa cacacacaaa aaaaaaaaac tgtaacgacc aaaaaaaaag aggacgcgtt 60

agaagaaaaa aaaagaacaa tccgataaaa agatccggcg atgtcaaacc cgacccgtaa 120

gaatatggag aggattaaag gtccatggag tccagaagaa gatgatctgt tgcagaggct 180

tgttcagaaa catggtccga ggaactggtc tttgattagc aaatcaatcc ctggacgttc 240

cggcaaatct tgtcgtctcc ggtggtgtaa ccagctatct ccggaggtag agcaccgtgc 300

tttttcgcag gaagaagacg agacgattat tcgagctcac gctcggtttg gtaacaagtg 360

ggctacgatc tcacgtcttc tc 382

<210> 686
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-C4

<400> 686

nnnnnnnnnn nnnnnnnnnn nnagaataga acaaaacttt gattaattct tctctaaacc 60

attcaacatt tcaagccatc aacaagacta ccatagaggt gctatagact tttagcaatt 120

tgtagaagac aaaaaacgag agagagagag agaagaatct gaaaaacaaa aatacaacaa 180

aagtttggtg tgcaataaca aatagtaata catgtttttg gtaaagaaga gcattgatag 240

agagaaagat ttacttcttc taaggtttat aaaagagtgt tttttgagtc catgtaatca 300

aatccagtct tcttggaaga agcttatttc tactactcat cnaangngct caagaacccn 360

ccaaaggaaa ccagctccaa atggcagtnc cca 393

<210> 687
<211> 342
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-C5

<400> 687

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agctgggaga taaggtccct tcagtgccaa taatacattc atagttatga tgaacaatga 120

gcatcatact aaaaagtgta aaaactatgg tttctgagtt ttgaaaatgc tacaagaata 180

tcataagatg agggaggttc atatcactta agtaactgtt gcagttatct cacaaaagtg 240

ttgtcgttgt cgcgcggttt tancggatta ttttaaanta caanagacgc tgattcatca 300

gtggaaaaca aatcctccgc ccgagtgttc aacttcctga ng 342

<210> 688
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-B9

<400> 688

nccnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaaa 60

tacttggagt acacctcctt acaactagaa acaacatgga aacaaacgtg gagtaacaac 120

ttctacaaac ttggaaaaga tggaaactgt aatcgtggaa gactccttgc ttattgtaac 180

taaatcgaaa acagagacta agtaaaatga cttagtgttg ggaatacttt ggattgggca 240

tgcgagnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnngcataa atcgtncgtc cntggttgat atctcggtta agcaantttg tccaccagnc 360

ttcngagtcn tccagcagcg gnaaacaaan cgccgggaga agttcgcncc 410

<210> 689
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-C6

<400> 689

ttttttttt tttaaaaaaa agagaggtaa atttgatatt tgggaaaaaa atttacaagc 60

agtcatataa ttatataata aatcccgttt taaacccatc aaataaaaat taaaaaaaac 120

cacttcatcg aactttacct tatgtgtata aaatatatat ttttgggtta agaagaacaa 180

gctatgatca gaatcaagga aggtagagac cactctgatc ttggtcagac gacgtccatt 240

gactttgact ccagtatgca tgatcaacgg tactggttaa atcaaacagt gtttgatctc 300

caccgccact tccccaatcc aacgggttca aaacccatan tcggntncga aanatcntcc 360

tttaaantca acctgggcca ttccgttccc aa 392

<210> 690

<211> 284
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-047-Q1-E1-C7

<400> 690

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aagaaacaaa gaaagagaac ctaagaaact ttcaaaaaac aacattgaag aaagagttgc 120

gaagtgttaa gtattcatgt tttcttgaaa aatttcccac ctttttcccc aattccggtc 180

cctgtaaggc ttgaagagag atgggatctg gtgtctggtc tccactgcaa ttctactaat 240

gctgagaaca gagctgacag cgaaggagag acttctgctc gagc 284

<210> 691
<211> 349
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-D12

<400> 691

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ttgtanaaaa tagaaagcca aaataaccaa aaatgaaaca aatttaagtc gtaagaaaga 120

gggaccagtc gatctctttg tatcttttct ctccatttct cgaccgaaca agtccataag 180

tgtcaagctc aagcatatca tctcaaaacc tggacaagac tcatggtaca accaaaaaga 240

cacaaaaaca aactttgatg caacaaagat tcgacatgaa tacaaatcac gagattaata 300

aaacacaaac tatatcactt cttanaatgt ccttttagtt naacgagtt 349

<210> 692
<211> 358
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-F1

<400> 692

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actaactatc gccaatgaac gaaacccttg aaaaccgaag acaacaagag attacatctt 120

tagcatttga cacgaaacca aaagaaaaaa aaaaaaaaga gtttgaatca tgttgtaaac 180

attantattg ngtaattttg cnccatcatc taaagaagaa cctcaagagt aaagaaattc 240

gtaactcgaa aatggggttt ggtttgcctc anacggagat accataattg ntgatcttgg 300

ttcacttcct ttggcaaagc gtttcncncc ntgcttcact tcaacanagc acggcttc 358

<210> 693
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-047-Q1-E1-F12

<400> 693

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ttttttcttt tcttttcgat atatctaaag gtctccgaaa aatttagcaa aattgtcaat 120

agcatttttt gcagcgaaat tacgagcagt ttctttcttg acaggatggt gaccacatcc 180

aacaaactta tcctcaatat ggaaacaata ggtttgattt tcttcccaag tgtctttgga 240

cgtcaatttc aagttcctct tctgacacat ctcattgagt tctgtcattg gatggctctt 300

cattttgtct aaatgtatta ttggctccaa caatggtttt atcaccttcc agacggtctc 360

gggtggagtt gcaatccatg aagata 386

<210> 694
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-F7

<400> 694

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acaatggagt acagaaccaa agtagtatca aacaaaccac aatatgacct gaaacaaaag 120

ctaaacaagc agcatgatga agaccaaatg tattgtcggc taatttgaaa cgatcaagac 180

tagttgcagg ctcgggatac catcacgacc agcataacga tgatggatag caggaccgaa 240

gtggtcagct tttcctcgag ccaattgttg aatttggcat ctttccccct gttgttaaca 300

ccatcaccat tgtaacaatt gaagagctcg gtcacgacct ttgttatttt cacaaacact 360

tccgtggggc ctaaacantg ggttgtcnaa tacccaac 398

<210> 695
<211> 328
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-G1

<400> 695

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tatctacatt atataattac tccctcanaa gcttccttag tagacttcaa cattccactg 180

ttcactcctc ttcaattgct tcttgtactc caaccaatcg atcccatctt tagcagcaag 240

cgagaccata atgtcatcga tacccttctc catacccctta agaccacaca tgtaaacaaa 300

ggtgttgtct ttcttcagca actcncac 328

<210> 696
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-G12

<400> 696

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caatgattga gtgtctttgt tgttaagaac aaaacacaca caatggttct caaaatacaa 120

caactgatct gtcatcgact gcaaaatctt tcacacttga agaagactca attctgtttg 180

tagctttctt ggcctcttca tcccaatttg taaaaatagt gacgaggcca angaccaaaa 240

acttgaacaa cgagggcaca tatgattcca agccaaagcc cccgaccacc aacgtgaaag 300

tgaaaagcaa gtaacaatcc tgaaggaact ccaacaagga taatatggaa ccaagattta 360

aatgattggg cccaaacttc tgncatccaa aatctctaac caa 403

<210> 697
<211> 365
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-G2

<400> 697

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aagacacacc aaatcactac tcatcacctt aataaaacat atacatccca actgaagaaa 120

agcctcgaca aaaagactct ctttaagaac acatttatac ggtatggcaa caactgaaac 180

cgaacccaat cttccattgt tgcnattgca cagaanaatc aggcttcctg ggactggtac 240

agctgctgct gttgatgacc tcaacaatgg ttgaacgagc ttttaccaca ntgctcatgt 300

ttgggcctaa actctgantc anattggcan acacnaatgc ctgctactgc aacgagcctt 360

gnaac 365

<210> 698
<211> 259
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-G6

<400> 698

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aatctcagca gacagctcaa ttgcttggtt gaaaccattc tctcctccgt aagaaacatc 120

aaccacattc aatatcttag cttgaagacg aggatcaaac agttctgatt gacttagctc 180

ggtcttaaaa tccgctgaac cagcaagtat aagaccagag acattaggct gacncgtagc 240

tggattaatg taaaactga 259

<210> 699
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-H11

<400> 699

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tgggccacgt actcctagat ccttagcatt cttgaacgtt cggattggta tgttgtcaac 120

aaagaatacg atctggtaca tgttccaaag gattgagtaa gtgtgataag ccttagaagg 180

atcaaaccag agatagattc gttgttctct gtttcccttt cctcctgtga atacatttgt 240

ctgtaatata gctggttgtc ctgttctgtt tccaaggaac tcaaagtcta tctcgtcatg 300

ctcattgttg gtagatgata agatagaaag ctgtgacaac tccggctgtg tcaccanctg 360

ggaactttat gtgnaatacc aaaatgttca a 391

<210> 700
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-H4

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ggattctgtt tctcagtagt cagctctcag ttcttagtta gctgtcgctg gatttgtttg 180

ttaggctcaa cagtactccg gtactgagag aaagtgcaac gacaccaagt gatgcctctg 240

ttgatatgtg gaagccaaag aaatcaagga tcatcttgac tcctatgaag ccaagaacaa 300

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agagaacctt antccctaag gattgcaaaa gagaattaga agtccaagga caa 413

<210> 701
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 701

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aaagaactaa aaagacttgt ccttgacact cgattagaaa agaaaaaaac agtctatgcg 180

acacgtcaca gagcaaaacc cctatgtgag acagacagat agaaagatat gtaaagcccc 240

agctgcaaaa cctgtaaatg gaagtaccaa accattctct cttctcactt gaagcacttg 300

gcgtccaaga gagcctcacc ttcaaatggc tctgcgtctt caatcatccg ggctaacacg 360

ctccttctgg ggctcaaccn gaaatttcaa cccttagtnc aatca 405

<210> 702
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-H8

<400> 702

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nccaatggta ncgaaagatg gaaatattgt acgatacaag agacataaaa acacatgaga 180

tgatgatcac ctcagtggaa cttgaggctg gtcaagacgt tgttgttgac gggatcagcc 240

aagtgatcaa gcaggttctg ataaggtccc acaccggtca ctagtccttg gataaagtaa 300

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tcaggtgncc ttcccnacct ttcccaaacc ccaaagnggg g 401

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<211> 388
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-C3

<400> 703

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cctaataaga aaacaaataa ttccaattca tatatgaaca tttttgcctc cttatttctt 180

gaaaatgtgg aattggaatt ccccgaggaa ttccgatctc atttcctttg gcttcaggat 240

angcctaata agaaaacaaa taattccaat tcatanatga acatttttgc ctccttattt 300

cttgaaaatg tggnattggg attcccgagg ggattctnca agatcgacct gcaaggcaat 360

gcaaactttg tcctcncccc tttaggtg 388

<210> 704
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-C5

<400> 704

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gatgaaatat acatttggaa acttacatga gaaaggccta aaatgttcat ttcttggaga 180

gcatttttatc tatttggccg tttttgttgt acatttccac tatctttttg gcatatgatg 240

gcatgtgggt gtttgctctt tgctttcccc atttgcggtt tacgtacaaa tagtttctga 300

tggtatggta gtccaacgag taccgagcaa attctanacc cttaggacca accaaattta 360

ngatnaacnc aanaatgttt ccaacaaana gtggncccgg gntnaacnag acccttgacc 420

aaact 425

<210> 705
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-C6

<400> 705

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nnnnnnnnnn nggnacagca agaaaacata agggncanat tagtcatgac aaaaaacact 120

tgggtttaag ctttttgnta ngacttgcaa ggacacncaa caatagccac gcgaaagaaa 180

aataanccaa aagaaaaaaa aaagagttga agaganaatc ngagacaaga agagctaata 240

cacatccact tcaataattc attcaccatt gtcaaacggt tacagctttc tacaacttca 300

gctcgatcac gacttacaca tcatgcttca cngctgttgc cgctggtatc caccaggctg 360

ctggnanttt ccaaaagccg cccccagcan aaccaccgta gtaggngtta 410

<210> 706
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-B8

<400> 706

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nnnnnncaag acnganatgc ttcattccat anaaagaaag aaaaaccatt acataaattt 120

agcaatgana taattgcana gaangtcnca tctaanagta tcgactacaa caacagcaac 180

aacaaacacg ttcaaagcaa aactcagaga ataaactaat cccagttttg cccctaccaa 240

aagaatctac acanggactt agattctcca gtctcaatgt gcttcttcnt cttcntcatc 300

ttctttcttg ggttacaata acaaaccctt cccaagctta nttacanana aancacaact 360

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<210> 707
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 707

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gtaaacaaag atccaactca atattactat aacanaaaca aacgcattac aaacttataa 120

aaactccatt gatttaaatt atttcgttta acaaccatcg tcatataaag gttcaaggac 180

atttggattt tccaccacgt gtcttcatgt tggcgtaaca agatccacac ttctccttat 240

taccgtaggt gcctgggga acacacttgc aagcggtagc agcacgtgac gcacgctctc 300

atacatacgt tcctcctcga gtgttgccca cacctcgtcc cacataaagg cacgcaatct 360

atccngagtt cttacgggga ngttgtgttt ggnnngtttt gacanggcgg ggcctgtnaa 420

gtgggttaaa 430

<210> 708
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-E5

<400> 708

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caaaacatga gcagatagat tttgtatcta tgggaatcgt tacataatcc ataaataatt 120

caaccataaa acgatgatct ctcaagattt aagtatccag atcttacgat tcattcagat 180

gactgaaaca aaacccaaga atatttgttc gcatattatg aacacttgaa acagagcaac 240

aagtagagca tttcacccat tatcacangt accatanata aanccaacca taagntagca 300

aanccaaagg aagagtccta atccggaacc cancaggaaa aanccaacta ccaannggat 360

ggaggnttca tcataantag gcaaaaaggt ggggtattng agaga 405

<210> 709
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-F3

<400> 709

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ttttttttt ttttttgtat caataacgcg acaatgttct caaatcttca atacataaaa 120

attgcaaagc aacttattat ttggtacatg ataagtaaaa cagtttcaac aacatattga 180

tccgtgtaat ggaccaaaac agatcaagct gagttaagtg gagctccaag ttcggtagag 240

ccttcacggt tttgaaacac gatcacgtat agtgcataaa ttatccctgg gatgtatcct 300

aagattgtca gcaccaagca aatcaagaac tctacagtgc aacagccacg tttgagacaa 360

actccaagag gtggaagaag gatngccatt aagatntcgc agaaaacttc catgttgccc 420

gncaattttt caganaagtt gngtnaaaga aagatcctga atgttattct ggaattantg 480

<210> 710
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-F8

<400> 710

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gtatagatat atcaaacgat ccaattcggg ttcagtttag aaaccgtgga tcttgatctg 180

atccttctta gcaatcccag tttggaccaa gaactgagac actttcttcc tttgatcacc 240

ttgaagctgg atgatcttgc ctagttcttt gtcctgcaca acgttaccgt tgcagcagaa 300

atctttcttc aaatccttga gaatcctctc gtagctgtac tctttcttaa gcccttgaac 360

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<210> 711
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-G1

<400> 711

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gagattaaag aggtttcaaa caaagagatg ataaaacata ggaatctaac ttatttcatg 180

gaagatccct atgtgaagaa gtcnnnnnnn nnnnnnnnnn nnnnnnnnnt aaaaccgagt 240

ctgtgaggga tcaaaggaca caaactttca tcccattgca tatttctgag tccagcttct 300

cgcagtagac tcatacnttg ccnctatcgg gttttgtaca tgtgaagcaa tctctggaac 360

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ctagaatgn 429

<210> 712
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-G7

<400> 712

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ctctgaatta gattattaca tttccaacga ccatactaaa agaatacatg tataatatta 120

cctgaataga aaaataagaa aaatacncaa actatttaag tcagctcttt ttcttcccca 180

gcctgaatta agagctaact nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnctaatt ataacactaa ttattaagac gacgcttgat tantcctcct cntcctcang 360

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tnaagagca 429

<210> 713
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-H2

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gcacaatcac tcttattgcc atattgtgtg agaaacaaaa tcatgagaaa gattctataa 120

tctcaagaag gcgttgaagc catgaactct aaaggaacca aagaaggaaa gagttctgta 180

aatctaaaac catgtcgttg attctttgtc ttcaagcagt ttgagcaact ggttcatcag 240

atgcttcaag cctttcgatt ccttccccaa cctcgactct aagaaaatcg gtaaccttca 300

ctggagaacc tacctccttg gacaaattat ccaccaagtg tcntaatgtt tataagcatc 360

gttcacaata aacttttgct ccattagaag caacttcttc aaaatactta cggagac 417

<210> 714

<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-H3

<400> 714

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ttttacatgt agtgtgatcc ctttttaaat ttgttttgtt tgtctagcat tattatataa 120

aatacgaatt aaaatcttac aaatcataag attgtttccc agtgaattta acctcaatgg 180

gactaacatt tttaccgatg gatctcatgt ttagtccaac accttctctt cctggattcg 240

ctttctctgg ataaactcca tctttcgggt gaagatattg aacctctccg ttagggaaca 300

ctctgtaaaa ctggtaagtg atcttgtact ttgacctcaa cctcngtacc taaangccaa 360

cacgggntct tcctccgcca ngtttcaat 389

<210> 715
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-H5

<400> 715

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attcctgtaa tgtcactagc aatctcaaac aatcatgata catcatattt ctctcatgga 120

gccaaaatcc ccggctggtg gaaaaataat agtttgcgca agtgtgtatg attatttcta 180

ttgaggtgaa aaacaatcta aggttttctt tttacttta tttccaacac aaaattgatt 240

acgcatatgt attccacatg caaagaattt taaataccgg gatttgatag tgaacttatg 300

ctgcgacaga ctgtttctcc tcgtaatccg tcaagcctta aaagcttcca atancttgg 360

ccnagaactc ctggggaagc ctncaggtna agtccaaact ccaataaagc tttcccctgg 420

g 421

<210> 716
<211> 412
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-A4

<400> 716

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gaggtgaagt aatgtttttg tttgagatta aagaggtttc aaacaaagag atgataaaac 180

ataggaatct aacttatttc atggaagatc cctatgtgaa gaagtcctct ctctttctct 240

ctctctctcn attaaaaccg agtcngtgag ggatcaaagg acacaaactt tcatcccatt 300

gcatatttct gagtccagct tcncgcagta gacncaaaat ttgccccaac cgggntttgg 360

ncanggganc aatcccctgg aaccaaatgg gttanccggg ggttttgggg gc 412

<210> 717
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-A7

<400> 717

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acataacatc gatcgagtaa gaataaaaac attggaactg gaatttaaat aaagcataga 120

cacaaaatca ttatataaaa tcaaactaac ccttttttgtc taaccgaacc aacgtagcta 180

tgaactacac tgtagctnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnatg ttgttgtgaa ccctagtagt ctccaccaan 300

accatctctt cattagtctt tttcttcntc ttcnttanna gaagttttgc tcctcaatct 360

cntggagcan gtttgaagan agtgagggtg gcttccatgg ggaa 404

<210> 718
<211> 77
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-047-Q1-E1-B11

<400> 718

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aacagtattg tagaata 77

<210> 719
<211> 365
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-047-Q1-E1-B12

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tttgaaatgc gcacccaaaa aaccttaaca atattggnaa ataggtccaa ggaagatagc 180

agagacactt caacttgagc gaatgaggcc gtgcaagtaa gctccagtca tgacgagtga 240

caccaccgac acaagtccag ccggtaccac tttcctcgtc cttangtaac gtgatcccat 300

catccctgtc agtgccgncg accccanaat gccaatggan gattctaang aatggatttc 360

ctggg 365

<210> 720
<211> 388
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-G11

<400> 720

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gaatatttac agaacatgcc acacaatcat cacaanggct atgataaaat tccaagtaaa 180

caacaatatc gatgtccttc anaatcatct aagaccttcc caatgaatat ccagctttca 240

tgaaaaagcg aattgtattg agtgaatctg agtcagccca ctgtcttgaa atcagaagag 300

ccactcatct cctcaattct tggntttatt gggggaattt cataccttca agagagggcg 360

ttccaaacga ctaancaata tgtttcca 388

<210> 721
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-G4

<400> 721

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actgagatat acananagaa tactgattta atcataacaa atcgaaatat gaatatttgg 180

ggattggtgg tataaacaaa tgcgaagacg gtttacggtt tctatgcact gaatccacgg 240

ttaagcgagc tccanngacc anttggcagt gtggtacaan cctgtgaagc tgcctcctcc 300

atttgctcca tttgaatccc tgcattgcag atgtttgcna anaggactca atttccttga 360

tacgttccga agacagncga ttcaaantgc ctccccgaaa gctctcacct gaattttaa 419

<210> 722
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 722

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aacgantata taaagtanaa ataanagann atcgtatcna acgtanacta ataggtattc 120

aaaacagagt cgagcaagaa tctgttttag ggtcagacaa agccggtaac aaatattttc 180

tcccattcag tcccttaacg ttataactcc caccggtcgt tgcatccaca ngtaactctc 240

cagcanaacc aggatacgaa cctttcccat anactccagt acaagccgat ccancctcaa 300

gcggtgccgt tttaggccct tggnaatanc catctccgaa cgggttcgtt gccgtcgcaa 360

ccaagagact cgccaaggtt aancccccaac ccgttcaaan caaagtc 407

<210> 723

<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-F3

<400> 723

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tgattatcat ctcgaaagaa gaagaagaag agctttgttc cttctagaag cttcaccgtg 180

gctgatagat atgatgattc cggcgacaat taaagttcgg attcatgtac ttcttctgat 240

tatactttgg tgaacaagac gaaaccttcg atctataaat cttctctttc gtagactccg 300

ctatgttcaa aagcatcttc aaataactaa gccacatctg cttccggtaa ctgtatcagc 360

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<210> 724
<211> 387
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-G7

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cgaaacacac aacancgaaa accgccntca ctattccacg cattcgaagg cgccctggaa 240

tatgaaaaga aacctgttgt gttgcacaat ctnatgtgtt tttggnactt gtttaatggc 300

nagaatcgga tgaagcagag gacggcttgt tgtcgccgcc gtgctcctct tgttcgcctt 360

gaaancgtgc tggtatacga aaaccgg 387

<210> 725
<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-H2

<400> 725

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gtacactttt cccggccaaa tacagatgaa tcgccgtcac acanaacana gcaagacggc 180

gaacagagca aagaggagag aattctgtaa acgagccgag cctgaatatc cctgaggagg 240

agtatgatag taanacggca aataaggaac gatcggattc ngtggtggtg gtgtcccgta 300

attgccgtag taaggaggcg gataataacc aacgtnaccg tccgccgccg ttacggaggg 360

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<210> 726
<211> 148
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 726

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aaaatccgac tcaagcgatt tcataagc 148

<210> 727
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-044-Q1-E1-H9

<400> 727

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aagttctaag caggaaacaa caaacatttt aaagaacaaa gcagtgaaga aaacacgctt 120

cctgttttga tgagcagatc acttagatgg gtctctatgg ctctcctcca agctcaactc 180

tcaggttgtc atatggatac actctcggtg taaatggaac cttagaagct ttgtcgttca 240

aaacagcgag cagaccgaga ccaacaaaga accctaatcc gccactcaac catgcnaatg 300

cttcatactt tccgacggta tcagcaatcc gatctatgca aggctccgga aacgcagtcc 360

cgttgtcnca catnaagctc cgtccgttta ccgatancg 399

<210> 728
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-045-Q1-E1-A10

<400> 728

gnccggcaca ggtccaagga cnnnttcccg ggtcnacnac cncacnatnc gncggccgnc 60

ctttttttt ttttttttta agaaaagact tgggaaacct tatgaatgtt aaaagtgttg 120

ccacttcaat acaaacatcg tacttaaaaa tacaagtaac cacttgggcc attacaaagt 180

aaatcaacca tcatatatat atacacaatc acgatgaata atgttttttg agtatattaa 240

tgagaaagct tgtatgagat gatcaagatg atggcgagaa cgagagccac gattaccgat 300

gtaatgatcc atttgttcct agtcattctc cttgacatag ccgtcaacac cttcttgctc 360

ttgtcaatgg cgtcatccac accatgaagc ttgttgtgcg catgaaggan ggtttggcgt 420

tgctgactca aatcttggga caaantgaga tgccaacct 459

<210> 729
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-045-Q1-E1-A11

<400> 729

ttttttttt tttgctacag tcactctcat atgccaaaaa gccaaattgt gtcaaaatac 60

caacaaaaaa gacaagaaga aaatgcaact tcaactacaa ccaatctcgc aggattcgaa 120

cagacaagaa acatgggttc tctgctttaa tctaattgtt atctttctca aaaaaagacc 180

attccttaac gaccttcatg catcaaaggg cgggatnaaa cctagcgtgc accagcagtn 240

agttttagtt actgtccgaa aacgccattt tccaataanc ctaaatgctt naaagaaccc 300

tccaagaaan ttgcaatttt tggngaataa tggaaagaag gtgtnaccgc tcaaaaattg 360

ggcctctngg gnggccaacc ctcancctcn gaanactcct aattggtcct tccaacn 417

<210> 730
<211> 276
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-045-Q1-E1-A5

<400> 730

nnnnnnnnnn nnnnnnnnnn nnnnnnnnna agaaagaaac catccatgtc ntagatagag 60

ttaacatagt aacatcatcc caacacaang caaaggaaca gacnangnga cgcancacga 120

aacnanacta anagatcagg ttttatttag aaaanataat tattcccgat agataanaga 180

gatagagaag agttgccaga anccaaagag ctcatcaagc ctccttcncc cctgtgagga 240

gatccatnac cacgcctttg angcttccac tcgagc 276

<210> 731
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-045-Q1-E1-C8

<400> 731

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnatatgcat ccgcgaaagc ggtgtaacca tatccgagtc actgctactc acatagccga 120

attcttcatt atcatcatca gtagaatctt caattttcac aactgacttc acatgttttg 180

attcggcagc cagtgatcct ttcttcaggg atttatattt ggctttcttc gccttttttct 240

tcttcttagg cttcangtac atgagcactt tcgttcctgt gtcaaaacna tttcagccac 300

ctctgccgct tccctctctc taagcttcat tttccaaatc ttccattaac tacanacatn 360

agtaaatang tgacaagctg aaaatgcagg gacatggtaa gaggcaacaa 410

<210> 732
<211> 367

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-045-Q1-E1-D12

<400> 732

ttttttttttt ttgannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnaccaca ccacaccaat tattcgcana aatagtatac 120

atanatcaaa cgatccaatt cgggttcagt ttagaaaccg tggatcttga tctgatcctt 180

cttagcaatc ccagtttggn ccaagaactg agacactttc ttcctttgat caccttgaag 240

ctggatgatc ttgcctagtt cnttgtcctg cacaagcgtt accgttgcag cagaaatctt 300

tcttcaaatc cntganaatc ctctcgtaac tgtaacccgt tcttaagccc ttgacaagtc 360

gtcnaag 367

<210> 733
<211> 375
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-045-Q1-E1-G11

<400> 733

ttttttttttt ttcacaacga gaaattttgt attaaacata tccaactcat acaaggccta 60

agaaaagcct attcaaaatg caagattaca gaaattattt aggacccaac aaggcccaaa 120

gagatttcct acagaagaag aaactggaat ttgtctctat ctcacgatca cgtgtcgtca 180

ataggagaaa gacctanacg tgtgagatna gaagcctaaa agtgaaccga cttcttcctt 240

tgtcngtccg agcaccgatt ccggtgaaga aggaatcaca accgannaca ntcnacatac 300

attcttctga ttttttcngc cggtacaaag taatcngaag actccgantt naagcaagag 360

cttaanggga ctgag 375

<210> 734
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-045-Q1-E1-H12

<400> 734

ttttttttttt ttctcattcc acacaaattt tcccattaaa cacacaaaaa cgagttacaa 60

ttacttaaca cggcaacgag gttgctttct ccttctgttc gtctcactgt acagttaaaa 120

atggctctat ggactgtgca agttctttag ctgctcaacc acatcaagag tattgcttag 180

ctgatgataa tcggagcgat gaagagcgtt tatttgtccc gaggttttgg ttccatcatt 240

gaaatggttc tttgcangtc caccacgagg gcagtgacgc acacggattc tatgctttct 300

tgtctcagtc gagaaccttc cgtggaccac gaggaccaat atgacttcct tgtcncttgt 360

gtcctcaaac caagagttct gaagcaacac cgtccaaaaa ac 402

<210> 735
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-A10

<400> 735

gncgaccnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn ncaatacatt attaaggcta catattcggt atttaatatt taatcctata 120

tacaattaaa atcttatgtg atcctcatgg gcttcacaag tcaatgaaga ttgggctggg 180

ccgaagtaga ctctgactta acaaaacgaa caagagacaa ctttgcgata tcggaaacgg 240

caagcatttc gaacggcggc ggaatcactg atgagaaact catacgccgc ttcgaaagct 300

tctcgccaga accgaggaac cttaacgcca ccggagcgtc cgtacacatc cacatctgtc 360

tcancanttt ccctctcctc ctcaaatttt caanaacgt 399

<210> 736
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-046-Q1-E1-B1

<400> 736

nccnnnnnnn nnnnnnnnnn nnnnnnnnnn aagaaaaaga aaagtctctg aacatgtcaa 60

tgtatattaa catacagtat gtatagatcg aagctaattg gnattattac aagccaatta 120

gttgatttta agaaacatat aactcggctt gtccgtcaat gaaaagactc atgaactctt 180

ctccatccac agtttctttc tcaataagga gctgtgcaag cttgtgtang atatcaattt 240

gtgttgttan gatctctttc gctctcacnt acgccttctc aacgagcnct ctcacttccg 300

gcatcaacca natccgnctg ttgccatcga gtaatccgnt ctgcgaagac ataccttngg 360

ccccagaaaa gggggttccn ccctgngtnc aacaangggg agctgggcag acacgttttg 420

ncggg 425

<210> 737
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-C12

<400> 737

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aaagggataa aacattcgcg tcttaaacaa gcagaaaaca tacctcgagt cccatgaata 120

aaaattatag aacataacat aagaatttat atgtaagaga tgcaaaccaa gtttatagag 180

ccattgtttg gttctaaaan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

ngtaagcttc tcaccaaggt ttgtcatcac atggcggagc tcagctgctg agatgaaacc 360

gttctggtcc ttgtcgaaaa cccggaatgc ttccttgagc 400

<210> 738
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-C3

<400> 738

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taaacatgat gctgaaaaca aagattcttc aggtagagta aattttgccg agattcagaa 120

cacaataatg acaactcaaa caactagttt ctttttcttc ttcagagttc atcaaaacaa 180

aagagcattt cacctttttg attcaatcag attcacaact tgatcattaa aatatcgcaa 240

aatgctccca aacaaccatc atatctgatc aagatcaacg gttcaggggc aaaagagcat 300

gctcctgggc aacgggtaaa gtagggcaca ttagggagac ctaagcaagg tggnagaacg 360

caatcccccc tgaaagcttc natccccgaa gccgaatttc ggagcctaac gtncncntgg 420

aagcgaactc aaaactcctc caa 443

<210> 739
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-C6

<400> 739

ttttttttttt ttcaaaccat aaaccaatga ccaatatttg atattctgtg ttaaaggtga 60

ttaacaatgg aaatctttgt aagacgtcgc ccatgtatat acatgttttt tggccttgaa 120

gctgatcaat gctagtcttg ttcgtcggta tatataaatc ttaacattga tttcaacatt 180

acatgagaca gctcaattct caaaccgtct aaaccagtca acgatcgtcc tggaaagaac 240

tcgagtttcg ctaagaggaa tggtctttag cgcctgagcc acagcgtctg ctggcgtgta 300

cacagtccca atttgccact ttggatcctg tatgcaangt gtaagatggt ttccgttcag 360

ccgaaacctt tcaaagtgta ccacaataga atccaanccg aagcctaaag aatttcttcg 420

ancaaatcag tc 432

<210> 740
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-C9

<400> 740

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tacaagatat gaaatctgca tcacatttcc aagatgcaac aaaccggata cacacaactc 120

gatcacaaat taaactcact ttccggggac gaagttggta gcgaaggccc atgcattgtt 180

gttgactgga tcagccaagt ggtccgcgag gttctccaac ggtccctttc cggtgacaat 240

gggcctgaac gaaagaatcc aaacatagaa gaacataacc aaaccttccg ttccttgaac 300

tccctcacct tcaaactccg gcgaaaagcc tcggggtcaa gttagcgaag gccaatgggt 360

cgaaagctcc caactgggta aagcaagtcc tctgcntctc ccaatggaac atctccggg 419

<210> 741
<211> 184
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-E3

<400> 741

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ttttagtaac tactacttgg gaattttaaa tattttgann tttctcttaa gcatcacatt 120

caaaacaggc agaaaatgtg aaaacatgtc tgcctcaatt gttttcttct cgagccgant 180

cggc 184

<210> 742
<211> 75
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-042-Q1-E1-E4

<400> 742

ttttttttt ttttttttt ttttttttt ttttttttt tggccattga cattgtcatt 60

tcttacaaaa cacga 75

<210> 743
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-C1

<400> 743

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gagtttatga gatagagatt ccatcaacga aacaaacatt caaacggttt tgctttctta 120

caatcagaaa atattcttct tggcaaagtt acggcattag acgaaagcat tgattcttgt 180

tacttgctac atcagtagaa cttggctcac ttctttccac gaagcttagc tccaagcgct 240

ctctccagct tagaaaggat ttgctggttg ggtatagctt tgccaagact catactcttg 300

aatcacttgt ggctcccatt gatgatttga gcaagttggg actgggttag cttcctggcc 360

gtcctggctt gcaataaagg ccttccttan cccaattagg nacaacgttc aagaantaag 420

gtcccaatgg 430

<210> 744
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-E6

<400> 744

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ttcacacaca tacaaagtaa tttacaagat atganggctg catcacattt ccaagatgca 120

acaaaccgga tacacacaac tcgatcacaa attaaactca ctttccgggg acgaagttgg 180

taccgaaggc ccatgcattg ttgttgactg gatcagccaa gtggtccgcg aggttcncca 240

acggtccctt tccggtgaca atggcctgaa cgaagaatcc aaacatagag aacatagcca 300

acnttccgtn cntgagctcc ttcaccttca acctccgcca angcctcggg gtcagtatcg 360

aaggcccact gggtcnangc tcccaacctg gggtnaggca ggtcccg 407

<210> 745
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-F1

<400> 745

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ccaataaaac acttacacta gagaggaaat aataaggcca aaacatacac acgcaagcaa 120

gaaattaact ttgaaaccat gtattattac ggacttgatt gcctcttcat caagattgaa 180

ggcttggttc aaagaggacc tggaaaagtt ccactctccc tctgctcgtt ccacttgtca 240

acccattctc caggacagag ggcacggtaa tacttggcaa acctttcaca gtcattagac 300

tcctctccct ttgcaagttg tacacctgtg aaactccatg taccgagtga agcagtgcct 360

cgtcctccaa ggctgatctg atnaaagaaa tggngaaant nccagaagca agagnaagaa 420

atcaacgtcc agtggg 436

<210> 746
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-F3

<400> 746

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agaaatacat attatgaatt taactttctt agcacangan naccatataa ataattatat 120

aaattcccag ctgcttagct ttttttcttca aagttgaaaa caaaatgaat aaacccatct 180

cagagttgaa actaaagagg cagaaagagc ctaaaataca gagaacaaga ctgattctgg 240

acagaagtga aacagaggct gacaggtttc aagcttggga ccttgttaga cttgaagtgg 300

cttgancanc tnccaagtga aatnangcaa ncgtnccctt caaanttaac nttaggcagc 360

aatcctnaag aaacctacca ttaactcctc cccttaagat tcaaagttaa tgggaagatt 420

aatacctggg cctggaaatc aaaaa 445

<210> 747
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-G1

<400> 747

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cttcttaaat atttcacaca catacaaagt aatttacang atatgaaatc tgcatcacat 120

ttccaagatg caacaaaccg gatacacaca actcgatcac aaattaaact cactttccgg 180

ggacgaantt ggtagcgaag gcccatgcat tgttgttgac tggatcagcc aagtggtccg 240

cgaggttctc caacggtccc tttccggtga caatggcctg aacgaagaat ccaaacatag 300

agaaaaatan caaaccttcc gttcttgaag ccccttcanc ttcaactccn gnaaannccc 360

cggggtcagt aaccaaggcc aatgggtcca aacccccaac tgggtaaanc aagtc 415

<210> 748
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-G9

<400> 748

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actagcaaca acaagttgta acgataanna gctttaggcg ataataggat tattagtcan 120

naacaaagtt aaacagattc ctcctcatta gagaatgatt gatggatcct tctattccca 180

gttggattct tggagatcct tccttgctta gcagatttcc tgccacgaac acctttcaaa 240

attgtagaga ttttttgttt ttgggggcta taaccacttc agatgggatg caaccaccaa 300

ganaacatat cantattgan cttcaatcct tcggccgccn actttaccat aatatatacc 360

cgtggattcn actttgtcca tctgaccaca naacatc 397

<210> 749
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-H1

<400> 749

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agacaacatt tctttagcct tctcatacaa gaaaatatat ataagcaaga ccttttgcc 180

ttatataaaa ccctacacca caaacaccct ttcagtatta ctcatctcat ttcaaaagca 240

ttagagatta aagaaaatca tatttntnat aaaaaccaca ctgggcttat acgaagaacc 300

ttagaaataa aacaatggcc atcttacggg ttacgaagca ctgaggagct taacatcatc 360

gattacgggc ccacacaagt gatgaagaaa tcatcgctcc aaccgaagta aaatggtgct 420

gtaaaacata actcctggt 439

<210> 750
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-H11

<400> 750

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gtcttgccac attaaagaaa gtagacgaaa aagaagatta aaatatctga gatcataaca 120

gattctctac gtctcatttc atctcttagg cttcagtgat gggaaactca aagacgacat 180

ctttgccagt gagcttcttg taaaccgcag agaaagcctc aaccttgtac tctgtgttgt 240

tcctttcctt tgggtccaag aagaccttca tgattttggt accgtcgagt ctgtaccttg 300

tgcgcttccc aacaatctct gcaggtaaga ccacatcatc aagaatagct tcatggactg 360

aggtcagagt acngttgcgt ggtctctttg ccgctgaac 399

<210> 751
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-H12

<400> 751

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ctgtatatat tataacatga anagtttggt tatacataaa aactcctgtt aattgcatgt 120

tttggtactc nagataacac aaggatgtca aaaagaagga agaaaaaaca aacagatcac 180

ggaattgagg gtcttgaaaa acagtaagga aacttgatat gatcggtgaa ctattcgtgg 240

tatagataca agccgagacc aaatcgagca catgctctgc agaatgctat ttcctcagct 300

gcagtaactg ggatcctcga tgtgatcatc agtcgtccgt tactgtccca gttgattcac 360

gatgtgcctc accatcagag ccacgaatag tgagacg 397

<210> 752
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-H2

<400> 752

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gagttcaagc caaaaacaat cgttgaagag tgtaagaatc tcgtctaaac aaaatgcaag 120

atagggagag agagagggca cagctagatc tcagctttaa tatccacgcc ttggaggacg 180

ctcttccgct acattcactc tgattgctct accctccaag ttctgtccat cgagggcaga 240

gatggcttcg ttgagttcat ccacgtcaga cattgtgaca aacccgaatc cacgtgaacg 300

acctgtctca cggtcgtaaa ccaccctagc ttccacaact ttancatgct cactgaaaag 360

ctgttctaaa cgggcattgt ccacatccca tgggtagatt ccctacatat actccgaatg 420

caaggtcata tanc 434

<210> 753
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-H3

<400> 753

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gatttcatgt gaagaatgaa gaaagacata tatacaatac aactgaatta agcaagaaac 120

tccacaacat tgtctatcga tttcaatgtc ttctcgtagt aaagatagga ctcgtacacc 180

tttggcgtcc gtacatagaa atccaactca ctcatgtttt cgacaagctc gtttgccgcc 240

tgaacgtaat cattccggcg actctccggc aagatgttca tggcgttggt gagattctga 300

gacagataag cctgtttcaa tcctatgtan aatataacgt acctccacga catgtgggtc 360

caacatctcc ctcanggtct cttaatcctt cagccgtctg ttttaaacgc gccgccgcaa 420

tcctcaaggt gaatan 436

<210> 754
<211> 162
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-041-Q1-E1-G5

<400> 754

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atatcatgta catgtattaa ttttacactg aataaatcta taaaaaaata tatattgcaa 120

cccccaataa tatgaaaaaa aaaaaaaagg gcggcctcga gc 162

<210> 755
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-041-Q1-E1-G7

<400> 755

ttttttttttt ttgacaagac tttatggtca atgtgtaaac tgttatacaa aatcatacaa 60

cacaggagga gcctgaagat tttctgaagg acaaacaaca aaatggaaat ggaatataga 120

aacaccaaag aataaatatc aaacctattt caaatcattt tgatgcttat aaaaaataca 180

gtaatctaac actctcacaa acccaattct tcttcaggtt catggcccgt accttccctc 240

gttcacccta tttaacccat gtttgtattc gatttaatac ctccttatag tcttatacta 300

caccttagaa cacaaacgca atcctcatgc ataacatagc tctcgtgagc taatattctc 360

gctctttctt acccaaatgg gtttcctcct gattgga 397

<210> 756
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-G8

<400> 756

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cagtgtagca taagaagtta caaatgaaga acaaacttta tggcgtattt gatcaagcgg 120

ccactggagt tttgagggct tcgagtatct tatcgtctaa ctcaaactta atctctttct 180

tgtctctgcc aatcttcaca tactcttcga atctctcctt gagatcttca ggcagattcg 240

ttttactctc ccaccctaat aagtccttag cggctcttgg ctctgcgtag aaatgcatgt 300

ttctgaatag aaaagccttc ttggcgtcaa ccccaatggc tttagggtca taatgaacga 360

tttcaacagt tttgcaacaa cnggaacaaa aaa 393

<210> 757
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-041-Q1-E1-G9

<400> 757

ttttttttttt tttttcatgg aaaagtctgt tacgcaagaa aacgaaattt cagagtccag 60

tgacaccatt ctgttcttgt agcatttggg acgtgtttag attacaacta actcgtaaga 120

gtaactttaa aatgctattc ttagagagga agttctccac tgtctgcaat tacgactttg 180

ctcttaggag ttccgctttg tttgccctca gcttcaatct tataaactac atccattcct 240

tgcaccactt tcccaaacac cacatgcctt ccatctaacc agcttgttgt caccgttgtg 300

ataaaaaact gcgaaccatt tgtgtcttct cccgagttcg ccattgaaag tacacctggt 360

ccagttgtgc ttcagcttga agttctcaat cagcaaact 399

<210> 758
<211> 66
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-H1

<400> 758

tagaactagc tcgagccgnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc 60

tcgagc 66

<210> 759
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-H10

<400> 759

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caaaaatctc aacaaaaaca aaaaaannaa acctcaaagg agtgatcagt tggtcttagg 120

atcaggcatg gggaacaaac caccagcacc ancagctcct cncggcggag aaaaccctag 180

aaatttctgt anattggttc tgatactaat tgaacacagc agatagagaa aagccatgga 240

acaatccgtc ggatcatcac ctttcagtcc cctgtgactc atcttcttca ctatcgtgat 300

cggatggaaa ggaagcttcg cgacgacttt accttcgaat agtgaattga gcaatccgaa 360

gacgacgaag agaaccagtg ccacaacggg gccggattt 399

<210> 760
<211> 387
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-F9

<400> 760

nnnnnnnnnn nnnnnnnnnn nnnnnnnaac aacaaaatac atattatatt ttaaacacac 60

attttggata ttatttaaga acactagnga tactggacca acacacatat tatacattan 120

atattcgaga aatgaaaaac ttggcttgtg aaaacagaaa ttaaacatat actacaccaa 180

cgcatacgtt atacgtgatc gagaattaaa agcttcgctt gtgagtcctt gattacncat 240

taatatatat atacnagggg gctggagtgc gacccccacc atgcccactg cctgatggtc 300

ctgtaaatat gtctccattg ggtctanatc tacgcatcaa nttcctccca ttacngcctg 360

gancgtggtc actcgttgat gatggng 387

<210> 761
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-H11

<400> 761

nnnnnnnnnn nnnnnnnnnn nnnnnnnnna aaataaaata aagcttaatc gaattataca 60

cgactgtgtt aagtatataa atacatagag cgcagaaaga ttcttatgac aaaacccaca 120

ccaatccaac tcccatagct caaagtaaat acaaaatcca aagaatcacg cagctctcaa 180

gaatatatca gacacggagc aaaaaggaaa gagagggaga gagattcagg ggcctcgagg 240

tttgaagaaa cagaggcacc cctgaaactg gtccggagct atcattccac cacctttgct 300

tgtgtctatg gcttcaagca gcttcaccac ctcctccatc tccggacgcc tgtctggatt 360

cgggtcccag catctcttca tgaagtttgc caccg 395

<210> 762
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-H12

<400> 762

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aagagcttan acanaagctc caactttggn attacataaa gcccaaaaaa aggcccatta 120

gataaccttc tgcagaagaa attctatcgg aactccatcc atgaacacat gtcgacaacc 180

gggatatacc acgtcacacg ctggatgaat aatcaagagt tttccggcaa caaccttcgg 240

cgttgagctg attccggtga natgattcgt gtgttttgca ccaagaatga aaacatcaaa 300

gctccaaatt aaagataacg gcttaaggaa tcntgataaa cgacgggaag aatcctcaat 360

ccttcaacaa aagagaaaaa ttctttgaaa ccaataagtt a 401

<210> 763
<211> 402
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-H2

<400> 763

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catgatacat cgcaaatatg acaattgaca aacacatgca tataatagat aaagagccac 120

atacatgata cattgcaaat atgacaaaca cgtgacatgc atataataga taaagagccc 180

cacacatcac aaatgaaaca aattaacgtg catacattta ttgacgcaat ttcgtagcta 240

tagtgacatc agtgacttgg tgagtttttt gggaaacctt tgggggaagn agnaggntac 300

nnaaanggna ncttcnggga acaaaagggg ggaaatggcg gaaaatttgg cccccaaggn 360

ggaaacccgg gacaatgaat gggganaatg ggcccagtta aa 402

<210> 764
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-H4

<400> 764

anctgccggt gccggtcaag gtcanatctn gggtcgacga ccncaatatt nggnggccgc 60

ccnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnngag cggattaaac 120

ttaatttccc cttaattttc caaagatatg acaaggaaaa aaaaaaacgt aatcaaaggg 180

gaaagtaagt caaaaagtgc cctttcgctg ctgcaaaatc ataggaagcc taaaatcacc 240

aacactgatc cgtctcccat ctccgggtcg tagcgtaaac ccgccccgac cgacccatcg 300

ctccggcgtg tacccgtctc cgtggtactc taagcgtcga agtcgtaaat cgctcttgta 360

gtcggattcg caagtgtcnc gtaagctttg tgaatcccca aaaaatctcg aacgtccgan 420

tccgaancat ccggatgaaa atactttan 449

<210> 765
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-A12

<400> 765

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnca caaagcaaat 60

tttattgata aactcacact acaagtacaa atgcatacca aaagttgata catttatata 120

tacgctcata agcaaactat tagattattt ttttgacaca atacataata aaagcattaa 180

tacatttaag taanggttta taaattcctt ttgggactgg ctgatcccgt aaatacaagc 240

tgaacaagga gtatctctan aattgctcaa aaaccatgga ttttttangtt ancctctttc 300

acaagcccag cctgaacaag gaacgtagat acgttcttcc tctgatcacc ttgaagctga 360

ataacctgtc cnaattcaga gtcctggacg acggtggcc 399

<210> 766
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-A2

<400> 766

gccgcgggtc cggaaataaa ttcccggggt cgncgaagct cactantcng cggccgcgat 60

tgggacgcaa gcgagaagtt tcaatacgat cctttgagtt actctttgaa cttcgatgac 120

gacgacgagg aggatgaata cgtcggacta ggtggattac gaagcttctc gacccgattc 180

gcttctgtcc cggtttactc aggtaaagct ccggcgattt cgccgacgtc gttgtctgcg 240

ttgacgccgc gtaatgagat cattgaaagt tagtgggcgc gtgtgagaaa cgcgtttgcg 300

tttctggcgg cggggaaaag gctgtcaaaa tggttgactg gtttggttta catcgttttt 360

gggagtctgt cgcgttttct tatttaatca ttctgtttat ataatcaact ttgaattaan 420

tttaataatt tcccaattta attaanttaa ttaanaacca aattttaagt ttcccccaag 480

cnaaatccc 489

<210> 767
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-A3

<400> 767

ttttttttt ttatgaaata tcataactgg catttaccgt acagaccaag aagacctcaa 60

aatagatttt tggtctgtta catttgtaag aacagaacat aagagaagtg aataaattgt 120

tcacaatcag acgagcgagt gtttgtgtgt ggtatcagag tcattcttca tccctttat 180

tgttcttgta tgaaatgagt gtgttcgacc ttgtcaatca ctctcttgat ccaggtgaac 240

ggtacagcca catcggtatc agtaaatgct cccaacacaa cagacacacc ttatccaacc 300

gccaaagccc gattaatgtc tcctcctctc cttacatgtt tcaatggaga caaaggcaag 360

ccaagttatg cnnggaagca acnttgnccc aattaananc ctggaaaccn cccccgtgga 420

ttcccctaan aactttcccc ctttg 445

<210> 768
<211> 101
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-A5

<400> 768

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gcttcctatt aaaaaagcaa taataagtgt tttggatttt t 101

<210> 769
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-042-Q1-E1-A7

<400> 769

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gaatgaatat agtaaaacat ttttttacaa tcagctaatc tagaagcttt gaaaacaatc 120

caatgttgat tttttccagt ttgaccctct gaagcttaag taactacgag ttgagagtgt 180

ccaagagatg gacaaggaga taacagaggc acggaaaata ttcccatgtc tttactgtct 240

gctccgtccc aaaacccctt ccaacttgat ggcgttaatg gacaagcatc agcctgaacc 300

tgagcttctt ccctcttaac aagctttacg gctgatcagc tggctttcat cctccgtcac 360

ctgtctcttc ccccttggct ttaaagaaat aagcctcctg gtgtccccca agtcctcaag 420

gcttcc 426

<210> 770
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-042-Q1-E1-B4

<400> 770

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agatgactaa cagttacgct ctgtcaccgg cgattatcgc cgccgttcgt cctccggcat 120

ctcaagacta tcnagttgct gcttctctta gtggacgcaa atcgatcaac tcttcatctt 180

cgtccatttt cgtacctatc tcattatcta cttcctacgg tcgaagcana tgcagccttc 240

tcaatctcgc ggaagaatcc aaagtcgacg attcgttgcg aatattgcng tgaaaatcgg 300

cgggnttntg taaacncnng acgctgatct aaccgtcaat ctacgtcngt tgggatnact 360

ggangannac gataaaagcc gaaaggagaa agaatgggaa gctangggtt aatggttaac 420

aggttcccgt ttgaaaaagt tnaacaaagg tggg 454

<210> 771
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-042-Q1-E1-B8

<400> 771

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attagttcac cttggagtgt atcttgtgtc atctccatga ttttcttttc ttcctctttg 120

ggtttgaggt ccctcaagat cttttgccat acattcattc gggtaaaatc ttgtgaaaca 180

cacacccatg agagcccatc aaactgatgt ttaacatcct catggttaaa aacctgttta 240

gcaagtgtgg ttttacctag accacccata ccggttatgg aaaccacttg aacgtttgct 300

tcgtccacca aaatatccaa ccaattttct taacaatttt gcctccaaac cccacaaaat 360

ccgctggtcg tccgtcctta gaaaaatttt tgtcgcaacc tccctttgtt aatcaccttg 420

aaggttgctt atacccacc 439

<210> 772
<211> 379
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-B11

<400> 772

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ttactcatta cgcaaaatgt gataaaantc tcaaaagtta aaaaaacaat tacatagggt 120

aagattttcg gaatataacg ataaatggag ggcatttcta gaaatattac atgctctctc 180

tcttctctga cagttacttg agaaaatgat tgaagtaagc caaaaattaa aggaaaactc 240

caaaagtttc caaatattta atcttggaac ccaaattttt caaaaattgc atttcgaacc 300

ctactcagat ctcttccttt caatgtcntc ncnannncctt catgaancga gaacgaagcc 360

attctcgtct tcgccanaa 379

<210> 773
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-B2

<400> 773

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tcctccactt gaaaatatag gtattgcgag catttagtgc tcagaaacga agataccggc 120

catacccatg ccagttccaa cacacataga ggtcacggcg acccgcttgt cctggcggcg 180

cagctcagag agagcagtga cgacctggcg cgcaccggtg gcacccagag ggtgaccgaa 240

ggcaatggca ccaccacggg ggttgacctt ggactcatcc agagcaagct tgttgacaca 300

gtagacaccc attgaggaga aggcctcgtt aatctcgaaa atatcaatgt catccttgct 360

caagttgaac ttgccaangg tcttanggat agccaagaga t 401

<210> 774
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-B3

<400> 774

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taatctctct acattagcct gcctgcgacg gcncatctcc cttactttaa cgtttacact 120

ttaatatgtg tcactctaat caagattaga gctcacaaat cacagttttc aaatattaaa 180

tcctataggt aaaatcatag ccattattac tatttaatca aagtgagaga aaacgcttat 240

ttaaccaaac attaatatac gggttaaaaa gaactaatcc tttccttttcc ttttgaacag 300

cggttaaaaa gactattcaa gaagactaac attacgtata aaccatactt aagattttac 360

gaaaagtcgg actaatgatg tttgaatccc ctcgagtgtt cc 402

<210> 775
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-B9

<400> 775

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caaaagatgc tatattctaa gacattgnag aaccccaaaa ttaagagaga acataaatta 120

tgcaagtaga aaacaaaccc agtagaagaa agccaagacc agttttagtt tcgtttgcct 180

cgaaggacac ccttactacg acgattcttc atccccagct taaacttctt cttcaacttc 240

ttcccaatag gttttagcga cttgtttttc ttctcatcat ccatttcctc atcactatcg 300

ttggcgattg tagtggaggc aagatgcaga ctcagaggaa ggcgtcgcaa cttccataaa 360

cggagaaact ggggcttgac gaactggtaa cttcgga 397

<210> 776
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-B1

<400> 776

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tcgcgtctcg aacgcgcctt aattctcgtc ctttaagagt tcttccaact ccttcaaaca 120

ccgagccacc gccgccagat tttctgctcc gtcgctgttg gctcttcgcc aagtactcat 180

gcggcggcat catcatcccg gaatcttcct cctcctcttc atcagactcg tgtatcgact 240

caaccgagtt gactcggtat atcttactcc aatccggcac gttcaccggg agcccgacga 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnggggaaga tgacgcgt 398

<210> 777
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-C10

<400> 777

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acgttgatac atgatactct gttggcgttt tacaaatcct agagagtcaa aaccattatc 120

caatcgctgg cttgtttcct actttgcatc tctcttctca tcatcatcaa tatcctttat 180

agcatccttt gcaaggcttg tcacatatgt tccagccaat gcagtaacca acagacccac 240

cccgagagtt aaaagctggc cgtttcctcc aggcaagcca acattagatt cttcttgaat 300

gattgctcgt ccaaaanccc cggcgctgac ataagcccan gnagcctgga agcataccca 360

ancagcttcc taatacctaa ggcataaact tcaca 395

<210> 778
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-C11

<400> 778

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gaaatggata cgacaaaagg catcaanntt ccgccaaaat taacaaattt atttgaagtt 120

gaaaatcgac attgcttgat tttgtttata tcaatcgttt aaccacatag catcatanac 180

ttaattctcc aaacagaaat canatataca cacataaagg cttttggatt ctcttatagt 240

tataaactgg atcacatcac tgaagcatcg ttttatgcct ttcagttgtc gccttgcctc 300

agtanacgca atatgggtca agannanatt gaggatgtcc aagttagaag aagctactga 360

nngctaggga tgtatccgtc nt 382

<210> 779
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-041-Q1-E1-C8

<400> 779

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attctagtaa aaataattaa acgttacata aaattacact cgtagatttc acaccaacac 120

atcttctatt gagaagattc tttttcaatg tctggtatag ggaagtttta ctagcttgtt 180

ccatactcaa gtaattccca cctgaatggc tgaaagacat atagcacttc cgggcaactc 240

ttgaacaaaa gagcgacaca aacgcaaacc gctgctatcg ctaccatcga aagcattgct 300

ggcctgtagg caacaagact tgtggtgcgt tgtgacaaac acacgtttgt gatcacagag 360

cttacattgg gtttatctgt gttatctcca agcttgaag 399

<210> 780
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-D11

<400> 780

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ttcataaaat tctaacgtaa aaaacaatca tattgtgaga tggttttaga gaaagaaaca 120

aagttccaaa agacacattc gttctcaaat caaaggtact atgtaacctt aaataagacc 180

aaaaagaaac aagaaagtcc ttttcaagga agatnagatn cagcagcacc accaccgaaa 240

ccaccaagct ccacgaccaa acccttgcct agctccacca agctccaccc ctgaagccag 300

gctggtaatc agcangtgct ccagccttgt caccatactc tccacctgat ttaggacctc 360

cacggtatcc atctctgtca ccaaaacctc ctctctccat 400

<210> 781
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-D2

<400> 781

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acaatgaatc caaaccaaac tacataagta gcaaatatgt tcaccctacc cttgaaacaa 120

cactattctg caggtcataa atcagttggg gaatcttgta gctcttctca cccacgggac 180

catcgaacgc tgctgctgat gagatccagc tccattgttg cctacattgc ttctattgtc 240

tgcaaacctt ctcattctca ttctctcttc cttcatgttt gcaaaccgag aatccagtgt 300

ctgaggccat nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn ttccgacaaa ccctctttgt 400

<210> 782
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-D5

<400> 782

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cttacaatgc ttttctgatc tatgcatcna agataaaata gtgtttacaa gtagcatcgt 120

attgaaccaa ttgatccagc catgtggtgt atgtcagcca ttacttgttt gcgttcccta 180

ttatcggtta gtgtccctct ttaggctcgg tttgcctccc ctagtatctg attggtccat 240

cgaggctgcc tgtagcaaac tgttgaacta ttggattagt tgaggttgtg aattcatgtg 300

tcattccttg ccaaacgatc tttccttcat acagaaacaa taacctgtct acagctcttt 360

gaatggtgct atgttgatgg gtaacaacaa g 391

<210> 783
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-041-Q1-E1-E4

<400> 783

ttttttttt ttgttgttca tgaaaagatt tgtagattga cacacgagac tacccattgg 60

tttgttgcgg tttaggttca aactccaaag atgaataggt tttccattag acctccaaga 120

agcagccagc ttgaacatga ccaccgtgtg tttccaattt tacccatcgt gagctactta 180

aatcacatat ataccctacg gtggcttcac cgtatccagc caacgccttc ccgttgccga 240

tcacaatcag catcccgggc ctcaccgcta cgtaagtaac attgtacaca tcagcaggga 300

tctggcccac cttttgccac ttgtcattta gaaacatcat cacatcgcca ccccagcacg 360

cgtacaaatc cccaacggcg accaagtcgg aagggctaac g 401

<210> 784
<211> 244
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-E9

<400> 784

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caacacgagg taagcccang gntcacatnc attanctgac caaacaaaat tcgttttanc 120

nataacttac agacataaaa atcaactcgt ttttaaacct gaatctgaca acaaccctcc 180

atatcaacag ttttgagttt cnttttgaaa ctctctcaaa gtgcgtcaca acttcanacc 240

ctac 244

<210> 785
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-F1

<400> 785

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tctcttgacc aaagttaaaa acacacaaca tttgaaacat gacaaactag atgtacttga 120

agagcaaatg gaggatctaa cttccgaaga cagcgacttc gagattcttg gcggagtcaa 180

caatggaagg aggatcaaag cgagtaaaga gcttataaga ggagattaga gagagaacga 240

tgtagaaaca aaccacaaag aatgtgatta taacagaagc agtggctcta tgacagaaac 300

cgccatagga gctacatgca tcgctccaag taatggctga gtctccattg taagccaagt 360

atagaacctc agctgataca gctccagcag caagaaccan 400

<210> 786
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-F3

<400> 786

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aattcgttac aacatcacga atctgtaata tttgctattc gtataagcaa aatgtacaat 120

tcacatcact aagacagatt acttaacgaa gacgtttagt taccttattt ttcttcgtcg 180

ccgtttcaca cactaacact acaactagtg gtaaacgtat acttaacggc gttgtctccg 240

acgataactc cgttagcttt gttacccgaa gtttatatat gctggacact tcacatgaag 300

atgatacttc ccggtgataa aagtcccaac cttccaactc aactcctaac atcaagcacg 360

aaatggattc aacaaaaacg aacaccgttt atcctttatc ggtgtcaaag 410

<210> 787

<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-F6

<400> 787

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agttatacac gcacatgagt atatatgata caagagttca aacatcatga tgatgttact 120

aagacaagtt tttacttatt catacaatat ggttcacaga catttggaaa ccataccaaa 180

cagactgatc aaatctcttt taagcaaaaa gaatctgaga attcgatgga gttatatctg 240

cataacgctc cggcgactca acaacctccc acctcacagc aaacttattc tccgactgcc 300

aaatattccc aaccgcgaga tgaagattcc taccaaccac atatactctg ttcccataac 360

agttaaccgc aaacggtcta caaaatctgc tcangcaa 398

<210> 788
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-041-Q1-E1-F8

<400> 788

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn ncaccacacc aattattcgc ataaatagta tagatatatc aaacgatcca 180

attcgggttc agtttagaaa ccgtggatct tgatctgatc cttcttagca atcccagttt 240

ggaccaagaa ctgagacact ttcttccttt gatcaccttg aagctggatg atcttgccta 300

gttctttgtc ctgcacaacg ttaccgttgc agcagaaatc tttcttcaaa tccttgagaa 360

tcctctcgta nctgtactcn ttcctaagcc cttgga 396

<210> 789
<211> 360
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-H3

<400> 789

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cttcaagctt tanaattcca tcttcaaatt tcagataaag atgatgataa taaaacccat 120

aaacatatan agtacagacg aaaaagttga tattttanac atttttanta aagttaaaac 180

aagaagaaga aagaaacaga catgaaaaca taaacaggtg ctgaagcata cgaatctttg 240

tttagcccat ggcatacttc tgagtccagt ttcntgcagt agcctcgtan ttggcnctgt 300

cggttttgna cagngtgtgc aatctctggg ancaaagggg tcatccggga tttggatctg 360

<210> 790
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-A1

<400> 790

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ttacaaaagg ctagtactgc attagaaatt ttgaaggaag tgcttgacgc agtcgattct 120

caaaatcctg agggggcaaa agatgagttt actcttgatc ttgtcgagca atgttcgttt 180

cagaaagagc gcgtaatgca cctcgtcatg acatcgaggg atgaaaaagc agtttctaaa 240

gcaatcgaat tgaatgagca acttcagaga attctcaata gacacgaaga tttgctgtct 300

gggtaaaatc actgttccta acangtctaa cacatcaaat ggatatcatt ccaatctcga 360

acctgtccgt cctatctcaa atggtganca aaaacgcgag ctaaanggtt ctaatgcaa 419

<210> 791
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-A3

<400> 791

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tccaagacag gcgaacggta gaagcattgc cgtgagtgaa ggcggcggag ggaagacgat 120

gacgatgacg acgatgcgga aggaagtgca ctttagaggt gtgaggaagc gtccatgggg 180

tagatacgcg gcggagatcc gtgacccggg aaagaaaacc cgggtttggc tcgggacatt 240

cgacacggcg gaggaagctg caagagctta cgacaccgcc gctagagagt ttcgtggctc 300

caaagcaaag actaatttcc ctcttcccgg agagtctact acggttaacg acggtggcga 360

gaacgattcc tacgtcaacc gtacgacngt gacgacggcg cntgagatga cgcctcagan 420

atttccgttt gcatgtcacc gggga 445

<210> 792
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-B4

<400> 792

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cagaatcaac tagttttgtt tttcctcttt caaaaatgca tttctcttcg tcttcaacat 120

cgtccacttg gacaatctta atcacattgg gatgtcttat gcttcatgca tctttgtccg 180

ctgctcaact cacccctacc ttctacgata ggtcatgtcc taatgtcact aacatcgtac 240

gagaaaccat tgtaaatgag ttaaggtcgg accctcgtat cgctgcgagc atccttcgtc 300

ttcacttcca cgactgcttt gttaatggtt gtgacgcatc catcttgtta gacaacacga 360

catcatttcg aacaagagaa agatgcgttt ggnaacgcaa attcggctcg gggatttcca 420

gtgattgata gaatgaaagc tgcggtggan aaggcatgcc caaga 465

<210> 793
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-04-Q1-B1-B6

<400> 793

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ttgaactgtc tgaggctcaa agggcacatg catcagccat tgaagatttg gttcctggcc 180

ttgtagctgt gaagaatcaa gttagtagtt acatggatga tgaacacttc tggctgattt 240

attttatttt gctgatgccg agactgaatg ggcatgattt tgaactctta gcaacatgca 300

aggtatttga aacaagggat caacttttac taaagctgca aaagaaagag acagggtcaa 360

gcaagagcac tactggtcac gaaactcctg aagaaggtag cagtaggga 409

<210> 794
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-04-Q1-B1-C1

<400> 794

ctcgagacag atttgagatg gtaattagtt ttaggtgcta gttacttaag attaatttct 60

gtcttgtgtc tttagaaact tcgatttgca gaaatctatc aagcgattat gtcttcgggt 120

tgaaagattg aagaatattc cgatgcttat tatgattcct ttttgctgtg tcttttaaat 180

ggagcaccgt tcagttttat ttcggtggtt acaaggattc attgtgcgat gtttcggcga 240

tgcattcctc accggattcg gtgttcatcg gcggcgaagg ttgatgtcgg tacacttccg 300

atgactcttc atcttgtgtt gcagttgtaa tatcacgtgg acacgtgtat tggataaagt 360

ccaaatgtca aaacatcttt atgccgtaaa tgttaatcct aagggctaag tt 412

<210> 795
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-G4

<400> 795

ttttttttnt ttttttttnt taggtccaga acataacttt tatttgacca tatattcgaa 60

tgcacgagat gtgcattctg aatagtgatt taaaaatcat acaaaagaaa gaaatagaaa 120

gcttgttaac tctaaatgac caaatggatg aaagagcaac aacatggtga tatgatatac 180

acatgtatta tgaaacttgg tctcaacaag gtaacttgaa acccatgtaa cgaccagaga 240

cataatcatt ccaaacatca agagctccat agcttgtcat caacacaata ctcaatgcca 300

tgacgatacc aaccgagaac acaatgatcg aagcccttcc atactcgggt tattaccttt 360

tgaancacct ttantcccac gaatggtgcc ncaa 394

<210> 796
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-C3

<400> 796

gnaattcggc tcgagcgtga atctgcgtta atgtcggagc taagcttcgt tgttcctcct 60

gatcacgaga ctttggactt caagtttttg ttgaagccaa agaacagaaa tacgccctgc 120

atagtggagg agggtgaaaa taggcttctt actggtggtt cgttgcaagg agatgctaga 180

ttagctctgt ttaggctgga aggtgatgtg attgttgaat tccgagtctt catcaacgct 240

gacagagttt ctccaattga tcttgctact agttggagag cttataggga gaacctccag 300

ccttctactg tacgtggaat tcctgatgtc agcattaatc ctgattcaaa atctgctgag 360

tgtcctttag aaagtttgga gctccatctt gcacattatg aagttcctgc tcctgcgcct 420

tc 422

<210> 797
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-C4

<400> 797

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ggggccaaat ggagatttct gaggccatgg acatcagaac aagacaaggg ttgcttaatg 120

ccctagcggg aaaagttggc aaaagaatgg acagcctcct ggtgccttta gaattgctat 180

gttgcgtgtc tcgtaccgag ttctctgaca agaaagcata cttacgctgg cagaaaaggc 240

agttaaacat gttagcagag gggctcatta acaatccagt tgttggattt ggagaatcag 300

gtccgtaagg caactgacct gaagagtcct ctgctaagga ttgaagaatc agagtctctt 360

ccatcctcaa ctggagaagt gcaaagagca gaatgtttaa aatctcttag agaagttgct 420

atctcacttg ctgagagacc ggctcgtggt gatttgacgg gtgaa 465

<210> 798
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-C5

<400> 798

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ccgattcggc tcgagcggct cgagcccaat tgcatcagca gtctctgatt cgacccccctc 120

atgggctgcc aatgcccaac tctcttcagc aacccctgca atatcctaac tttaataccc 180

ctcctccacc tactgggtca tcatctttgc aggggtcaag cttgccagaa gcacnctctt 240

cattgtttcc ttttantacc agttcncaaa tgttagctcc tagttcattg cctttccctg 300

ntctaccacc tgtgacgctc tcgtctagcc tgcaagtcta cantggcaat caagcancat 360

ctccttcaag nagcnttcag anatgggaac tccgttgctg tnaaacaaaa gcccctatta 420

ctgntcctcc taacctaact caaggtaata atttgcnttt c 461

<210> 799
<211> 87
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-C7

<400> 799

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nnnnnnnnnn nnnnnnnnnn nnnnnnn 87

<210> 800
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-D2

<400> 800

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aatccaccaa atttctcaag atcgaaacat ataattgaag atgagcgacg tatttgaagg 180

gtacgagcgt caatactgcg agctctcaac caatctctct agaaaatgtc actctgcatc 240

ggttctctcc aacggagagg agaagaaggg gaagattgct gagatcaagt ctggaatana 300

cgaagctgat gtcttgatcc ggaaaatggt cttgaggnaa agaaagtttg cancccgagt 360

gctaanaccg tgtgtccttc taaactaaga gagtataaat ctgatctgaa ccaattgaag 420

aaggaattca aacgaagtct cttccgcaga tgctaanccg tcttc 465

<210> 801
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-D5

<400> 801

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acttataagc acaatcaatc tcttaacaat cgttcttcta ctcttcgttg tttccaagat 120

atggaaagct tgttggatcc tccttttgcg tccattgatg ctatcaaaaa gattcaagaa 180

acaaggaatc tcaggaccaa agtacaaaat cttgtacgga aacctcagcg agataaagaa 240

gatgaagaaa gaagctgacc tttgtgttct gggatccaat tcnaatgata tnttccctcc 300

gtgtgtttcc ccaagtatca acaatgggat gtctcaataa gggaacgttt tccaaccaac 360

cntgnttttt ttttcctcct ttcananatg aaggttactt aacacacaca taagt 415

<210> 802
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-04-Q1-B1-E3

<400> 802

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gctactactc agcagcgaga atctcaatct gtctctcctt cgagtatttt acaaaaggct 120

agtactgcat tagaaatttt gaaggaagtg cttgacgcag tcgattctca aaatcctgag 180

ggggcaaaag atgagtttac tcttgatctt gtcgagcaat gttcgtttca gaaagagcgc 240

gtaatgcacc tcgtcatgac atcgagggat gaaaaagcag tttctaaagc aatcgaattg 300

aatgagcaac ttcagagaat tctcaataga cacgaagatt tgctgtctgg tanaatcact 360

gttcctaaca ggtctaacac atcaaatgga tatcattcca atctcgaacc tgtccgtcct 420

atctcaaatg gggaccaaga aacgcgaagc taaan 455

<210> 803
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-E5

<400> 803

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cggcgggaga gcaagagtat ttcacggaca aaaccacact ctttgtcgtt gagctcattt 180

tgatcggatg ggcagaagga cgtagatggg ccgatatcat caagcccggt agcgtcaaca 240

ctgacccagt cttcccaaac aacaaactga cgggcacaag acgttggtta accaaggtgg 300

gttatggttc gaccgttggg gttggggatt cgggagnccg gcgaagctga angatttgng 360

gaacnagggn gatnaaagaa cgggaaggnt ggctaagttg gcaattgatg ggtgctt 417

<210> 804
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-04-Q1-B1-E6

<400> 804

ctcgagcatc attcctgaag ctttaaacaa atatggcgct aactgtggcc ctgaagctgt 60

ctggtttaag actggtgctt tgcttcttga tggaaacaca ttgaactact ttggcaagaa 120

catccctatc aaccttgttc tcgccgtagt tgctgaggtt gttctcctcg gtggagccga 180

gtactacaga atcaccaacg gattggattt cgaggacaag ctacacccan gaggtccatt 240

tgatcctcta ggccttgcta aggaccctga gcaaggagct cttcncaaag tcaaangaga 300

tnaaagaacg gggagaatan ccaagtttgc caanctcggt ttccttaacc aaagcgtntg 360

ttaccgggag aangtcctgt tgaaaacctt gcaaancatc tc 402

<210> 805
<211> 388
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-B11

<400> 805

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atatcttgtg tttgagtttg agtttgatgt atcacacaag attagcataa attatttgtc 120

tccttctctg gctctctgca cccattgtct cgtcggtttt cttggatctt gcgaattcgg 180

cttcctttca ttgacagtag gtccccggcc tctgcttctg cctctgcctc tccatctccc 240

tcgacctctc ctgttggtgg agctgctaga gtttgtctct gattcagctt ctttgggttc 300

ctcntctcct tgntcntggc tttcaccagc ttcntcttcc ntcgtttcgt gacgttgatg 360

catgagctgg ggggaggaag atacattc 388

<210> 806
<211> 377
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-B5

<400> 806

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tataatttct attaccttca ctccatcaga aacttagaca agaaaagacg gagatgttca 120

ttagcacagc gcggtggaac tatctttccg cgctctcaga aattcaacac tgaaagaata 180

actctcgctt cnttttctct ttgctattac atgattgata catccagcan gacaatgact 240

aaagagatag tcntttcacc tctctcattc cctcattcgt tctctgtcta agttacangt 300

anactctctc ctngaatctt tnttctcant cttgcanatc ttctggctan tccggaatat 360

caccgccttt tgtcaan 377

<210> 807
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-B10

<400> 807

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canatcttat ttcagttgtg atgtgaaatt aatagaaatt acaacagact catcttattg 120

taagtactat taaacatgaa gagagaggat atggatcaat atatctacga gtttaagtgc 180

ttgaaattaa ctgattaggt aagaccctac tttgtggcat ccttagcctc tccngcttta 240

ccctccgcga actctgccgc cttgtttgcg gcttcttttc ctttctcctc cacatacgcc 300

gcagctttct caagcttctt tacccaatgt anctgcggtt tcactgtttt tttcaacaac 360

gtagtcnttc gctttcgcac caaccggct 389

<210> 808
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-C11

<400> 808

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cgggtcttga accggcgctt gaaccggatc cgagatccca gcttccttga ggactcgttg 120

tcggcgtaga cgccgttgtg cttgtaccgc cggtaacatc aataacaaaa ctcccgccat 180

ttttcaaact gatcgacgac gatgcagaaa ctgcggtggc tataccgtct tggaaaagct 240

cgaaacgata acctagagtg tcagaggtaa ccagcctcac gccatgcttc tagtcttccc 300

catggcttcc atgtgcaacc gtcaggtcga ngaataagcc acgctccggg gacttgaccg 360

agtcacccgg gttcgaacca aggagatggt acgaa 395

<210> 809
<211> 137
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-039-Q1-E1-C4

<400> 809

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ccacaatgct cacaaacaat atagatacaa taagaggctt tgtgagttgg ggaacataaa 120

gatgttgttg ctcgagc 137

<210> 810
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-C7

<400> 810

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ngaacacacc acattttgat attnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nncttgttcc cactctccat caacagactc tttccacact 240

gtaacgttat tgttcccatc ggaaacagcc aacaaattac cggtcaacga ccacgangac 300

ccgccacact gggtgttttg aaatcnttca aaacagtacc ttcccattgc tcaacttcct 360

tcccctaagg tccaataatg atnactttcc atccttctga anccaa 406

<210> 811
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-D11

<400> 811

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaca aatataaaaa caaatccaat 60

gcataacaat aaaacaacgc aaaagaagat tctgcttgat cttctttcct gtcctataaa 120

gagttgttgc tagatgaaga actagagaga aaaagattca gttttaattt tccacctata 180

aattgttcaa aacataaaca acaataaacc caaatgacaa cgcagatcca gaagaccccc 240

atgtagaaag cangtgagtt ccaagaatat ggcgaggaaa gaaacttaca attaanggga 300

aagaacagag nccttanctt tagccacnct tngacccgtt ccgagttcnt cttcagctgg 360

tttttaacng naaagcgcaa tggggtggta ctttcc 396

<210> 812
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-D3

<400> 812

ttttttttnt ttttttttnt tgaaaacaaa gttcttttta ttgagatatc tgaattaatc 60

agactgaata caaatatggc aatccggagt aatgaaacca cgcacttggc ttgttttatt 120

caaaccataa ttattcactc taagttacca ctgagtanta tgcagcaatt actanaaaag 180

taaaaacana acaaacgata cttagcctat aaacagaacc aaaccggttt agttgttttt 240

ggcggcgttt tcaaacgacc aagctccaaa tatcgtgacg ctcaacggca cgtcccatgg 300

aaccagcaaa accggngtac atgttttgaa gaagaacttc attgagcact cngggagctt 360

cgatnaaang cccgcttaag gttccttaac ggttttcaag gccgaagtgg aa 412

<210> 813
<211> 377
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-D4

<400> 813

ttttttttttt ttttttttttt taagatgaaa gtgagtattt atttagctag catgataaat 60

gaaaatcccc acaaataaca ctaaacaaat ctctttttttt tttagggttc cttctttttt 120

tgttctcatc ccttttccac acaaaagaaa aaatttacaa catagtaata atgtagacat 180

aacttgcgaa aagagataat gggaggagag gcctcgtttc cttctggtga tactccttag 240

cattcacacc ctgtagacct ctgttgantg ctcgtcccta catcgattgt gtctggcaag 300

tatagttctt cttcttctcc gctcttcaat gngtccttgg naatgcattg gaaagcntcc 360

tccacattag gtaccgn 377

<210> 814
<211> 211
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-039-Q1-E1-D8

<400> 814

gacagggagt aaaggactcc tgaccacacc cagtaatgat tatgtatcca aaataataaa 60

tgtatacgat gtatgtataa gatggacatg tttcagtatc ttaccaaaaa tataggagac 120

ttttaatgaa aagtcttctt gtttaatttt atgaacttta tgattaataa aaggagtgtg 180

tttaataaaa aaaaaaaaaa aaaactcgag c 211

<210> 815
<211> 368
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-D9

<400> 815

ttttttttttt ttttttttttt taagctaaga gaaagccttt caatgaaaag atgtacaaat 60

acaaatcaaa ttaacaaacg cagcccaatc aatataagat gttgacctta taactttcta 120

tgttgccata ttaaacccac attaagcaaa ctaaagaacg tcattacatc aaataccata 180

tttcatttgt ttccccatcg agatgantag agatcacatg catccgaaaa gctttttggg 240

agcggttcca gtggcacggt acttggctgc naattcctct gctttgagaa tttcttctcc 300

acgcttagct tcaancatcg ctctcttctc ttcngcttcn gttgngaagt tgagctattt 360

tgttcgnc 368

<210> 816
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-E12

<400> 816

ttttttttt ttttcattga aaaaataact tcaatctaag caagtagcta cacaaagaag 60

aacagaatca ctatcagcat cacaaagaga agatgacact tctacactct ttgagtttct 120

tttttacaag tgatcaaaan ggataaatag agaaaaacaa anacaaaaca aaaantccaa 180

acatgaatca ttcatcatat tcagacagac atgtgcaaga tcaaggagaa tcaagantct 240

cagttctgct tctcacaatc cgatggaaaa cttctcttac tttcctctca aagcggatcc 300

aagccatttc tcaaagcttc acgaacttga acaagctcat cagnnctctg tttnactcaa 360

ngtccggtgg cnacagtcaa cgggga 386

<210> 817
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-E4

<400> 817

ttttttttt ttttttcata caattatact ccattaatct ttcactttta cacacaatca 60

cccaatatgt aaacaagaca canacgaccn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngagat gaattgttac aaagatacan 180

attcaataaa ggcttangaa acatccacac gttgcctttg gtactacacc agtggctcta 240

tacttagcaa ccatttcttc agctttgana aagctcttcc ccttttttaa gcttcaacca 300

agtgcgctcc ttctcttctg cnaacttgtg ggantgcaag ctacnttgtt cntcaatttc 360

ctcaccgtac tgcgcctttt tcntt 385

<210> 818
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-E5

<400> 818

ttttttttttt ttgtgtttat gaatgaatat tcaagttaga ataagattac atactgtagt 60

acaaagcaaa ataaaatcac ttagataagt cagaaaaatc gaaacgttaa tctaaaaact 120

cagttcctac aagaaattta gcaaatatta ctatagcctt agatcgagat ctttcgaact 180

ttggccttct tcaatcntca taatatcatc tttatcaccc gtctgatttg atatgggcca 240

tggtttgacc aatggcgtta tccggcggtc tttgtgacga cngtcctgcc tccangtggt 300

tgaccggtta caatctccgg cttgggagga taacgatgat gacctgcgtt ttggttnact 360

tggtacggga gccctagccc anagg 385

<210> 819
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-E6

<400> 819

ttttttttttt ttaagattag atatatagtt tttgcctaag atactctcaa gaacgtacac 60

acactcacat aagctgaaac aaaaacagag gatacaacag aaagaaagta ctgagaaact 120

gggcaatgag gcagacgctt atttacttgt agcattatta ctgtgactga agcaaaacca 180

cttttgtcct tttagaaatt tctcacagaa ccttctctga agctggcctc ttggtgatct 240

cagccaccca ctcgttgaca cgtggacgct ccgtgaaaga gcttcttggt gggagttccg 300

ancaagtant gaatcacggg aatgtggtga aagatcggtc aaagtgaaag tttcaccagc 360

caaatacttg aactccttca gcccaacctc cgtnggaaat caaggggcct tgg 413

<210> 820
<211> 396

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-E7

<400> 820

ttttttttttt ttttttcata attttgcaaa cagtgaaaca agaatataca aatgaaggta 60

atttgncatt tgtttatgtt tcagccacaa ttctatttgt acaagaaagt agataaagaa 120

ctgagaataa accataaaat tctcacagtg acctttgag ttttttttgtc tcatgcttcc 180

tggagaagag gcgcagcggt tgattctctg gttactgcat caggctcgga atcttcgtta 240

tatcgatcca nactattcag gaaaatcccn atggaccaaa ttgcancaag ctggaaagag 300

aacgactgta anaacaagga gaagtcactc nccaattgtt cacgtantcc ngannaactc 360

canngagtgg tgangaaggt tcatctccaa agntcc 396

<210> 821
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-F1

<400> 821

ttttttttttt ttttattgag gacaatctaa ctgactcaga atcctgtagc tcttacacat 60

ttcanaacaa atcatccgag aaacatgagt agccgcagta ttattattcc atccgtacag 120

ttttattatt cgttctcgct agtagctacc caaaaaattc aacaaattgg aaaataggaa 180

ataataaatt caataanaaa atagngtaag taaatctctg agaggccgct ttagttgtgc 240

ttgccatcgt taaactgtgc gtttttggac gacttgaaag tttcaagaaa ctctttagcc 300

ttttgnaact cttgcttctg cctcgacttg tcccatttgt gttcacttgc tagaatctcc 360

ancacacgct gnaacgcccg aggcgntgga acagt 395

<210> 822
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-039-Q1-E1-G2

<400> 822

ttttttttttt ttgaagttaa gtatctacaa gtttttattt tcattgcagc aaaaatttnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnntcata cacgcataca taagagaaca ctgaacacct ctttggccta caaaagcaaa 180

aaaaccacca cttcatgcag tctaaacgac atcgtttaag ggtgggtact ctgttttctt 240

cttctcttct ctttttcaan acttgtgttg tgtgttaaga gatnacatgc cgtaagtagg 300

aggagagctc cctggncaan tctctgatcc tcctgctggc ttctcgaaag catcccggac 360

gtcgaccgtc tccctaaaac cgaaaagggg tcccttcccc ccnggc 406

<210> 823
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-C6

<400> 823

cgccgnccgg cacaggtcca aanacnnntt cncgggtcna cnaccncacn atncggcggn 60

cgnccnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnagagagac 120

gattgccatt taagaaagaa accaaacatt gaaacagaat acactggagg aacatatact 180

atataatcag agaaggtaga tttatttgat atatattagc taatacttgt tcactttctc 240

nggaacaagc ttgagatgct gcgacttgtg catagcaaga ccagtcanga catccatatt 300

gatatcatct ggtttcatcc cattaggaag tttaaagttg aagctgagga gaaggttcgc 360

ataaggaacc tcaagcatcg cggccccaag acgcattccc gggcacattc tccggcctga 420

cccgaanggt ataaactcgt agtccgtgcc tttgaaagtc aanttcc 467

<210> 824
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-D12

<400> 824

ttttttttttt tttttttac catgagaaac tcaacttcca aaaccaaatt gaaaatgttg 60

tatcgagtag tattccggtt agaagaatcc ggtccgtatc atgaaccaga ttctctttct 120

gtagctctcg gtaaataacc taatcacact aatgaaactc agataactaa acttccccat 180

cagattagag atactctcat actcctgagg attgacatct aggctagttt actatccggt 240

ttgtaacaaa accgaaccgg ttgattactg aacgccggac aatttagccc aatctacaaa 300

ttgcataccg ccatacacat tgttagcaaa ccggactccc accgtgaatg ccatagcgac 360

cacaggggat acgtttgggc gnctg 385

<210> 825
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-038-Q1-E1-D3

<400> 825

ttttttttttt ttttaatttg gtattgattc ttgacattat tgagtcaaag tacatgatac 60

aggaaagaag gaaattacat tttatgcata cgtgtcatat aatcaaaaga acaaggagta 120

gcaatgaaat ccatggttgt ctttattctt gattttccag agatttcttt agctcttttt 180

tgttcacctt tcccatggcg ttgcgaggca agctctccca tatcagcaat cttgttggta 240

gcttgtaagg agcaagcttg tctttagccc aaccgcacag ttcttctaag gttattacag 300

gttttgactc atcctctctt ctcttctttg ctgcactctc tgctataatt atcgcagtca 360

cggcttctcc atagtccgtt gtctgttaac cccaacacgc aacattc 407

<210> 826
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-D4

<400> 826

nnnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnngagg gaaaatcncg aatctggtta aaaggaaacg ttataaattt agtaaacaac 120

acgcgaatta acatttcgtt ccanacaaag aagacttaaa cgaaactgtt tcatcaaaaa 180

agtaaaccaa acgaacgata accaaaccag aagtggngac acaaaaccaa atctaaacca 240

aaaacagagc agcagcacgc aaacaactcn atctttgatt accanccgnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ttcgtaacct ccgctaagtn 410

<210> 827
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-D7

<400> 827

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnaa 60

aaaaaaaaaa attggaanan ccgccgaaat tgggccccat tttataagag tcngaattat 120

aggataaaag caacaaaaaa aaaaacttgt aaattattag agcgaagaac aaagagtang 180

aaatgataag agtttganac gaaagaacaa nagatagaag gaagaagaca agacnccccn 240

cgatnaaaaa ccaaaccaca cgttgttcnc cnaagccttg tttgcaatgt tgttanagag 300

ccagtcaagt cccccaaaaa gcccttctcc ggangtagca catgtgcccg gtatgtacca 360

agtgtccntg acngaaaaga gtgaaatcca agcttancg 399

<210> 828
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-038-Q1-E1-C3

<400> 828

ttttttttt tttgtaacaa cgattatttt ttttttgaat ataatttaac attagattca 60

aaaaaacaaa ataaacagaa aaagcgttct ggtttataca ataagcatac catatgtttt 120

tctccaagct catctacaaa ctgatgcgaa taactggcag aagctcaaga ggaactttct 180

tatcaacagt gagatcacca gcttcttcca tgtccatatc tttcttcttc tcaggcatat 240

tccaatcaaa gaagtagagc aaattcaaga gccccaattc aatggttgcg atcgccatag 300

ctattcctgg acaaattctc cgaccagaac caaatggtaa caactcaaag ctatgtccct 360

tgtaatccac aggacaatca ataaacctct ccgggttaaa ctcctca 407

<210> 829
<211> 92
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-E1

<400> 829

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnncaaac 60

agcatccaag gtcttttagt tgaggtttct tc 92

<210> 830
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-E3

<400> 830

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnncgcca agatgactca 60

tcgcatcatg catactcaaa aacattttgc taacaagaat tccacaaaat tttgggtctc 120

acattcccta agcaagcttg ttttattatt gggcctatag gcccatgcta ttttttttcc 180

ttatttatgc ttgcagctca tttataacct taaaaataac aacatactac acgctgaaag 240

cgcattaatt attccttatt actacaacaa gttcccaatt tttaaatacg cttacataaa 300

aagcccacaa gtctctaagg attagttgaa attaacttca tacttagact gtcgatctgg 360

atgaaacaag tccccaaaac ttctcaaacg ttgggttcct tcttant 407

<210> 831
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-038-Q1-E1-E7

<400> 831

ttttttttttt ttttttttgg atgcttgaaa tcatcgcctg aagctagaac taatgaggtc 60

aaacgatgtc tgggtttata accctattac attgaagtaa ctaacaacaa gcactacaat 120

ttttgaactt attgttggag aattaagatc tctctactat tcctcggtaa caacaacacc 180

aatctcgcct ctctcaagca aatcatagaa gactcttgtt ttcctctgct cgttccagtg 240

atgcatcttc catagcccac cagccgctag tcccaagtgt gagaccaata actaactcct 300

tcacaacact tgggcctttt aaagttgcgt gtgctatctt gtgcccagcc atctctttgc 360

cactctcact gaaatccaag aaaatgggta tacccaattg tata 404

<210> 832
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-F1

<400> 832

ttttttttttt ttaagaaaaa gacaagtcca ttaattaaaa taaacacatg atccagatct 60

ctcaaatatt ttcaagctca attacaaacc aagatgcaac aatgaagttt tataaagaaa 120

gaaatcaaat caggatctgg acttgaatgg aatggctctg atgacaagtt ggtggtaaag 180

agccgcaaga gctgctccaa tgaatggtcc gacccagaat atccagtggt cgtcccaagc 240

gtggtccttg ttgtagatga ttgcagctcc aagactccta gctgggttaa ttcctgttcc 300

ggtgattgga atcgtcgcca agtgaaccaa gaacacagcg aatccgattg ggagtggtgc 360

caaaatcggn acgtgggagt cacgagcgct tctcttgggg tcagtggc 408

<210> 833
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-F2

<400> 833

ttttttttttt ttttggataa catgtagtac cgtcacgaga ttttaaacct cgtaattcgt 60

aagtaatgac caaattttta catcatcgtg ctactagacg nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnntct ccaagaaact tgattgatac 180

tgaagcaata caagcaacaa aactatcaac gccgccantc cccacggnga gcttccancg 240

tcacctccgg ctccgggact cacgtaagtt gtccgacgac tgcttgaaaa catccccgag 300

aagcgcatca aggttctcca tggaagataa ccaacggacc aaagactatt nagaaacaga 360

ggaatcaaga gaagcgcaaa atttatctgg ctcctccgct gaatccggnt ggct 414

<210> 834
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-038-Q1-E1-F5

<400> 834

ttttttttt ttctttgaaa gtatctacga ttaataacac gtgtttgaaa aatccacaga 60

aactttcaag atttgctaca atgaatctaa gctcagagca gaaatgtgaa catgccttct 120

cagatattca gtaatcagag ggtaactagt ttcttacaaa gaggaattct gatttaagag 180

actgagaaga tgtagagaag agttcatcat ccaacagatg cttgagtagc tttttgtgtt 240

gagtttaagg atgcagctgc ggcttcacgc tcctgccgga ttcgctctct ccttctctcc 300

cagtaaggca agaagcaaga caaagtcata gactggagta atggtctgca ccaacacaaa 360

gtttattcca gtgaaaagca agagtccctt caacgggcct tgttct 406

<210> 835
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-G10

<400> 835

tttttttttnt ttttttttttg atgaagccaa gaataagtng catanntaaa caggatctcc 60

aagagatgag tgaagttaca atgattggtg catcaaaatc tgtgtaacnt gtaatctaaa 120

naaaatcaag gaagactact agtgtgtata tatgtgtgtg tgtgtatgcc tatacctcat 180

gtacaacaga agagaagaaa gaagagttca aaatcaattc aaagatgtct tctgcacaag 240

ggacaagaag catgcctgcg aagccatttg tcgatgcatg gtaggtggaa catatgatgg 300

cagtgcggca aacttctaac tgtctctccc acctgaaagt cctgaaggca gacangagca 360

agagacaatc tccgggagan gtgtccgtga atccggaacc ttagg 405

<210> 836
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-G2

<400> 836

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tacgacaggc attgatcgtc tgataggatt agatatggaa cgactctata cacgaaaata 120

tttagtcttt ctgtanaatc tatccctctt actaaggaac cctttgcttt gggtcttgac 180

aacaatatac attagtgatt ctggttctgt gttggtgtan gatgttcagg taatcaggta 240

cgaaantgcg actggagcag acagagataa gtagttgacg taaccttcan agaccgagat 300

cacaaaccga tggcaagcaa gcgcagtggt gggtgagaga catgacaaag gaagtccagc 360

agaatctgng catcaaaaac tccggtcact cccttgcaag aactccagta nct 413

<210> 837
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-038-Q1-E1-H5

<400> 837

ttttttttnt ttgtcacaag agtgtccatt ttgttatatc aacataagcc aaagtttgag 60

acaaacaaca gagccaaatt caactaaaca taagtgtaag acttttcaag cccaactatg 120

aagcccaagt aggaaaccgc atcaggaaga aagaagaatc attgaaacag ancctaaaac 180

acgtgtcatg aaaaggttag gtgctgaaga cacgtgagaa gaagaagatc ggagaatcac 240

tggtcgccgc cgaagaagat tgtcgactcc attgaaaccc agaacgccgc gatatgcatg 300

ttgaatccgg tgatagcant tgtcaattcc aaagctctaa aagacanntc ttcagcttca 360

tggaaattca acttcaaaaa tcntcccaan ntaaagcgtc aacgggttca acga 414

<210> 838
<211> 355
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-A10

<400> 838

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accacaaatt ccatcacaag aacagagaaa tttaacagat tcttaaaaca tgtgtaaaac 120

ggtgtacaat gaaagcaaat taagtagagg ttattctgac ctcacagatt atgtaacctc 180

ccgaccaaat cagttgagct tcantgangc aaatgatgaa gccanatcca aagccgcctg 240

cacttgngaa gcatccgttc ccngccctga ggcaagacca cctttcccnt tcccgnaccn 300

tccttttaga ggacccantg cagttgtcan ncattcagtg angtcgaacg gggta 355

<210> 839
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-039-Q1-E1-A4

<400> 839

ttttttttt ttanttgaaa cttttgtttt tgaaactatg aatgctagta ggaaaaaaga 60

attgtatcga taaatcgaac tttgaagaag agattgcgaa atgctgaaat aacaaaatct 120

ttgcaaagag ttttactccc aaacagaatc aaaagctctc tatccgacaa aaaagaatga 180

aacaaacatt catctcttca agcttctatg actgggtact cgaaaactac atctttccct 240

gtnagtttcc tgtncacacc caccattgtc tccagcttgt actcantgtc gttctttaac 300

ttannatcca aaantacctt catgatcttt ggtgccatca agncnggtat ctgggtctct 360

ttccnacaag cctcagccag gggtnaaccg acatcct 397

<210> 840
<211> 418

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-034-Q1-E1-F2

<400> 840

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngagtggga agttgactca 60

ttacaacaaa tgtccgaaca aagaaacaca cttgaaagat aagttttgaa acaaaaggga 120

caaaaacaaa agcaccaacc aacttcataa gaaaagatta catccctaat gtgacatgtc 180

taggcaaggt caagacaaag gagacggcca tcaaagcgac ggntagagca acnactgcgt 240

gaccatcctt tgctgaagct gatcctccct taaccgtgga cgtagctgga gttgccggag 300

actttcctgc nggtgccanc gggtgttgtt gtggcattgn ttgtngaata cggctgcgtc 360

tggcgagcta ggtgaaaatc ccnanaaagc tttggacaag ttggggaaat gcgagcgt 418

<210> 841
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-034-Q1-E1-F6

<400> 841

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncata cagtaaacgg 60

aattaaaaca taccagtagt aaacatctga attcagcact tttctatgtt tgcgagttca 120

gtgacatctg aaaattacaa acttggcatc tactgatcag caagtaaagg ccggtttcga 180

ggaacaggag tgcacttcag ggaatgagcc atactcaagt ttagtcctcc agcctcatcc 240

atttggacct tgtctccttt gatacnccag tcaaagcatt gcaccatcat tccaactgcg 300

gtgccaacaa gagatataac ccaagacttg atccangann agcctctccg tccactaccg 360

aaangaaatg gtacttaagt tgcttgctcc tcatccnttc ct 402

<210> 842
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-034-Q1-E1-G2

<400> 842

nnnnnnnnnn nnnnnnnnnn nnnnnagagc tcaagctctg agaggaaaat gcatcagcca 60

aaccaaattt ttacaaatta agaacaaatt ggtgacaaaa aaaatgaaaa ttctaacacc 120

tttcctctnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngtaa tgactttgtt 240

gaaacggcgc agacacggcc atccacgggc ggtccaacat attcggttgc attgangatg 300

tcattgtgaa gccactcgac tgtggaggtc caactgtgtg ttgctgcatt gggactgntc 360

acagtaaatg ttttcccaag gnaaatctgg tttacaca 398

<210> 843
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-034-Q1-E1-E6

<400> 843

ttttttttttt ttggaaaaaa acatgaaatt tcttaatttg gaaagattcc atggtgttgt 60

tctacatggc aaggaaaaag acatattatt atgttcacag tactctgaaa tccatagaca 120

aagctagaag cgcttttttt atgctcacat tgtctgcaaa taagaagacc aattaaaggg 180

ttctctccaa accaagaaaa aaacttttaa tgctcttttt cgtaatcgtc cttgngttcc 240

aaagttcttg caccaagatc tgtgaaggaa ttgggcgtac tggcatgtgt gggcctttgc 300

tcaagcttag caagataanc ttggcgatgg gggatgcaca caaggaaaaa cgcccgaaca 360

tagcaatggc ggtgttccga cgccaaatgt ttgggggcct acagttaggc ccaaca 416

<210> 844
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-035-Q1-E1-A1

<400> 844

ttttttttttt ttttttttaac tcaaaaattc tttagctttt tatcggttgg taatcactac 60

aatacgttgg agatgtttct tattttgttt cagagcacat gagaagaaag taaacaaact 120

aaaatataac ctcttcctac ctttttactc aaaaaagaat cccaaaacaa aaaattgaag 180

tgaagttaca agtctctgta attatcttcg tgtagagaga ttttatacag gttcctctgg 240

gggttctctt ctgatatctc aaagcatcna tacattcgga aagctcccat tcattgcctt 300

tgcctacctt gaagaccaaa tgtgggcntc angttgcgtg tnangcctgt gaancatacc 360

atcangcact tcangaagtc gtgaangaga acctttggat tcagcagtga natacg 416

<210> 845
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-035-Q1-E1-A11

<400> 845

ttttttttttt ttttaaacat gtatgacaga catctttctt cgtataaacc accttacata 60

acaccaacac acaaatacac acataaagaa agcatataag cagcagcttt ccctcctcat 120

cttaagcttt gagcatccgt agataatcan cgatgattga catcgcanga tgatcggtag 180

cccgaagcca aacaggttat aatggttcaa gtaatgatag agcaaataca gatncctcct 240

cttctcatnn cccgcttgtt ttggcattac cttgaaatac gcattgtaga aagattctcn 300

aaatcctgcg caccacgaca ttccaaaatc cgcctcgtta ggnccatagg taagaagcan 360

gatnaagaat ggncanggtt cggtggttct tggncgtaag gc 402

<210> 846
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-035-Q1-E1-A4

<400> 846

ttttttttttt ttgtatagag aacctaaaag ttcaaatctt ccttttgaag ttttgtatag 60

agaacataaa tatttggtaa agtgacactg aataaataca atatttcttt attttgttgt 120

tcatgaaaag atttgtagat tgacacacga nactacccat tggtttgttg cggtttaggt 180

tcaaactcca aagatgaata ggttttccat taagacctcc aagaagcagc cagcttgaac 240

atgaccaccg tgtgtttcca attttaccca tcgngagcta cttaaatcac atatanaccc 300

tacggtggnt tcaccgtatc cagccaacgc cttccccgtt gccgatcaca atcangcatc 360

ccgggcctca ccgctannta agttacattg gtacacatca gcagggatcn gg 412

<210> 847
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-035-Q1-E1-B11

<400> 847

nnnnnnnnnn nnnnnnnnnn nnnnnaaggg attcatgtaa actacttgat aaggaaagtg 60

tttacaccaa aagaaaaaca aatacaagat ggttcagcaa caaataacag agattaacaa 120

catctcgagg aaacaacaag gaagagacca naaatcaata gcgggttttt tcaagcagat 180

ttagcagctt cagctgcttc ttctgcagct tcttcgtctt gaagtttctt canagacgga 240

ggtggtcttg gnactatgct tttcttcnat tgncggtcaa gtttccncga caacccttt 300

cnttatcccn tcnttgatct nccnctctct ttnaaaccgt caacatccga ngcancttgt 360

ttcttcaata cgacnaaaag tcgcaaanan ttgaacctca gtccttggcg gn 412

<210> 848
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-035-Q1-E1-B4

<400> 848

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnagaccaaa attaataata taaaaaaaaa 60

caaataaagt cttcaaaaga agattttgtt catttctaca tttttaattt gctcttcaat 120

ctagtcagag ctaggaaatg gtcttaagag cttcatcttg aaacagaagt ccaaacctat 180

ggacgcaaac gcaaatatca agacgctctg agacaccaaa acggcgccgt ctatcccatg 240

tgaaaacaag ctttcccagc tcagctccaa tggcggtcct ctgctcaaca taccaaagtc 300

ctttaacana cccaaaagct gcaacggggt ccgggntttg agatgattat catccaaagt 360

ctcttctgac tgcatacctg aatgtgactc caaacantgc acagcttgca aacgcna 417

<210> 849
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-035-Q1-E1-C10

<400> 849

ttttttttt ttttttccaa ataatacgaa gcaaattata taatccaata ccatagatta 60

aaagatctct gattccaaaa tccaacaaag ctgagttcaa taacatgaaa taaattaaaa 120

agagactgaa ttgaaaaaaa aaactaagca gtgagaacaa cagcaccacc agcttcctta 180

atcttcntct cagcagtctt agagataagc ttagccttca caacgaaagg tttgttctca 240

ggcaaatgac ctttccccaa aaccttgaag aaaccatgct gcgtcacatc gatcaacgga 300

acattancct tgctcgattt cgccttcacg tcntcaggaa cangttgacc atnancntgn 360

ccaaggttca cganntgggc aaaagaacnt tgttnangaa agccctgggg gaaaaan 417

<210> 850
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-035-Q1-E1-C8

<400> 850

ttttttttt ttgattaaag aactcttttt ttagtanaac atatctaaaa aacttatctt 60

caaaatacag aaattcagaa gcgaaaatta cagttttgtt cagctatact ttgctacaga 120

aatgtcaaag gctttttgat cagtagactt caacgttcca ttgcnctgcc ttcttcaact 180

gcttcttgta atcaaaccan tcaataccgt catttgcagc caatgagacc ataatgtcat 240

caattccttt ctccantccc ttgagtccac acatgtaaac aaaagtgttg gtcnttcttc 300

agacaacgcn cataactcan gctgcgtatt gccncnaagc cggacgtctg gatatanatt 360

ttcncnccnt taagcgttcg gcttgttcgn cctgcat 397

<210> 851
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-035-Q1-E1-C9

<400> 851

ttttttttt tttggtcaga tattgaaccc aaaactgaaa gtgattttta ttagattaag 60

aattatagaa aagtatctga gttctgtctg aactaataca tcatagtcta gataaataat 120

cttcacctct accatcgaag acaagtggga taaaactctc gcctaaaaac aagcaatgcc 180

ataaggccca taacccttat tttgattaat ctgtgaggtg aaacaatagc agcaactaca 240

tatgtatcat ttaagctctg tgagagctcg cggcttcgtt tagctgcagg caacaactgc 300

attcanaagt gttgcccgng aaagagcctt tctcnagtca tgaaactccg ggtattngtc 360

ggtggccgnc caagtggagg gtaacatcca n 391

<210> 852
<211> 208
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-035-Q1-E1-E12

<400> 852

ttttttttt ttcacgtcac ctgagaacca cttccgtcac cggagttacg agccatagct 60

tcagcaaccg tcgcgagttt ctgcaaatta agcttcacaa ccgtatcagc aaacatacga 120

gtatcatcct ccgagttacc ttccggcata tcaacgacgt aagattccaa aaccaccgtc 180

cagatccgat tctctttctc gctcgagc 208

<210> 853
<211> 221
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-035-Q1-E1-E6

<400> 853

ttttttttttt tttttctaag gaaagaagga gccgatgggt ttgcttgaaa acttgtgtca 60

tacaacatat ggttcagaaa acaactaatt atagttcttc agccagacca aaacaagtaa 120

tagctcgata cgaaaaaaaa atagtctcaa atcgaagaag aaaaaacaag taaaatgcac 180

ttaatcgaac aagccaaaac ccaaatctcc atcactctct t 221

<210> 854
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-035-Q1-E1-E9

<400> 854

ttttttttttt ttttacgtat actcaaaact agagaagatt gatatattcc aatgacaaca 60

taataagata aaccaaacta aaccgagtca aaagcaagat tacatcccat tcctgcattg 120

cccataccga aaccaaatga tggttatata gttccaaaag attattacct ctccatgttt 180

tctttttcttc ctttacttct ataatatggc taccaaaaat aaagtttctt cttaaaagtg 240

taaaaagagg agggtggttc aggttcttaa cctgaccttc tgtaaatgct gtaagccacg 300

gcaacggttg cgacagcnga aactactgct gctcccaaga ggaacctcnt cctttcccca 360

tcgattttca ancaagttta g 381

<210> 855
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-035-Q1-E1-G1

<400> 855

ttttttttttt ttttttttgct aagaacatta atttactttc caaaacatga gttcattggc 60

aaagaatatc aatttggtac aacaatactt ccaatcacac ttttcatttc tttgcttagt 120

tttatttcta atcgctaaaa caaagtttac cctagcaaat aacctgtaca cagcgtatcc 180

aaaaacacta aagacgatga tgccctgaga acatccaccc aaaatagaaa ctaaacttgt 240

ggttgtgcag aaaccttcct caagatctac cattaggacc aagaagtagc catagctaat 300

ttctcggacc tgaggctgga acttgcttct gaaagtgttc tcatcagagg ttgccncntc 360

ctcctccttg tggtcnccat tttccntcgt ggcnagtgag aaancgggcc acca 414

<210> 856
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-035-Q1-E1-G11

<400> 856

ttttttttttt ttcgctatat aattattttc aaaatatttt aaacgtatat gaaatgtatg 60

aagaaatatg ggaatctcaa acatttatta acctaactac ttgaaaaaaa ttaatcaaaa 120

tttaacgtct tttaacagac cacgaacttg ttccaaggta aggaacaaga tcatcgtgaa 180

cggtccttgc ctcgtcgccg tcggaacaag ccctttgtac aaagccattg gtccttcctc 240

tgccaccatc ttcaccgcac aatccaacgg tccaccgtaa atctccttat ccgcattcat 300

catcctcgtc ttcacaacgt cgatgggatt cnacgccacc gccgcgacga atcccngccg 360

caaaactcgc cgctanatgc gttccg 386

<210> 857
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-033-Q1-E1-E2

<400> 857

ttacttcgnc cggcccaggn cnngnncncn ttcnagggtc caanacccca aaatgcgncg 60

gncgaccttt ttttttttttt ttgaagaaga ggttattaaa ttcagacatg aatgtacaac 120

agaaataaga gtttttgggga accaaaagcc aaatgcagat aaaaagaaaa gcaagtagaa 180

atggacttcc ccaagaannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnncaga cccggtttcg gcttttgcca aagctcttct 300

ccgtcttatt tacttgacat ggcaatcata aggagaagaa gcaaacactt gatctggaac 360

cactangagg taagcttctc tatatacaca aacaacctct tcttattctc ccgctcaatt 420

gtatacatat taaccgtatc ggatttctcc attaacatcc atnagtcccc tgaagt 476

<210> 858
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-033-Q1-E1-F7

<400> 858

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng agagaaaaac 60

gagttatttg attaatgaaa aaaatacaaa gtcttgcaaa ttttacatct aaacaagctc 120

tctttctcct ctcacactca cgaagcaaag actgaagcaa aatacagata aaacttggcn 180

cactttccgg gaacaaagtt ggtggcgaag gcccatgcgt tgttgtnaac tgggatcggg 240

ccaaatggtc agcaagggtt ctctaaccgg tcccttacca agtgaccnat ggcttgaacg 300

aaagaaacca anacatanga gaacatagcc aatccttccc gttccttgaa gccccttcac 360

cttcaaactc aagcgaatgg cctctggggt cggtanccaa aacccaatgg ggtcca 416

<210> 859
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-033-Q1-E1-F9

<400> 859

naccttttt ttttttttt tgaaggaaaa attaacattg atcatgtaac aaagataaaa 60

agacaaacta aacttgtcgt gattctatat ttcgacttct ttgacttcac cacataacat 120

acacacaagt annggaaatt tgtagttatc ttttaaagac aaagtaaaaa ataggagata 180

gtttcaatat cttccagcca tagaggagat atgcttcaaa catgatatag cttaatgacc 240

tgatcaatgt tggcgcgaca aacaggacat cccattttct tgttttcaat ctctttcaag 300

caagaaatgc atccggcgac atgtccacac gggnacacac actgcttcan aatggtgcat 360

ccacacaaat cacanacagt ccatncttct ttattcgcag tttttggaga aaggantta 419

<210> 860
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-033-Q1-E1-G1

<400> 860

ttttttttttt ttattttgca accgaataat catatattga aactcaatac taatcacann 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn caacaacagc agaaacaaaa gcgaccagaa aagtagcacc acctaatgag 240

gaagcggcat ttccagctgg aagtagtggt tccgctagag cctgaangtg ttgtggtccc 300

acccgcagtg ggaggagtgg ttccctccaa gtacttgggg ttgatccaag ttgctggggg 360

tagcaccggc accanggagg tancacctcc caagttgcac caagnagcaa ct 412

<210> 861
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-033-Q1-E1-D9

<400> 861

ncctttttttt ttttttttttt ttagttcgcg gtaacaaaac tcttatcttt ataaaggatg 60

ctccaaacaa gagtttttcc atcacagctc aagagaaaca actctaatag actagcttta 120

taacgccata gatgaaggtt tctttgaact tgtgaagaaa atgtcgaata tgaagcggta 180

gtttatgttt atatggtctt ttagcaaata ccacagagaa tcaaaactta actctttcaa 240

gatttttga cttgggactt gttgttgttc tcacattatg gtacatgagc aaaagcttct 300

ctgtggggnt tcttcctttt cgatttttt ctctggtctt gcttttgttg gagacagttg 360

cacgacaaca tgnattgtaa tgacgggatt tangg 395

<210> 862
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-033-Q1-E1-G2

<400> 862

ngttacttgc ccgccggtac cnatccaaaa ntaccggtcc annaccncaa aatnngncgg 60

acgaccnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnncg tcaaatatga ctataaatag 120

tgttacaaat tttcttatgt tacaaaatta caaaagatac ataaaagttt agtaaatact 180

atttggtaca agctctgttt tttacgagag taagaatatt taaatgtatt tgttctttac 240

atatcctacc aatatatgtt aactattggt gtaagattct ggagccatgg gcttatactc 300

aacaactggt cccattctac tcctggtttt ggtaattgta gctctggtaa acttccaaac 360

ggtagcttca gtgatgaaga aggttctttg gtctctgctt ctctttgttt ctcttcggtt 420

ttcgcgtttt cttgatgcat ttggatcntg tttgcttctt ccc 463

<210> 863
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-033-Q1-E1-G3

<400> 863

tcggcggccg nccttttttt ttttttttg ttatgtgtaa ttcgtgaaac tcttaagcat 60

tgccagagaa taacatatca ngtatccata tagatatggt tatttcttat ccaactagta 120

atgtacaaga anttattttc anaggacaaa tttcccactg tacgaaatca aatatagcat 180

acaagaatca tcatttctta aaagaaaaat ctcttaagct tttgctaggc cttataggag 240

gaagttccac agatgcaana acaggttctg ancttttcang cgcaagagaa tnatgtgtgg 300

aagtttcang cttcttggng ttgagactca ngatcccaan gttggtgttc atgatgacca 360

cggaccngga gtatcnaggg agaaggagaa cntgggtatt ttgcaaangc tccgggtaat 420

gga 423

<210> 864
<211> 214
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-033-Q1-E1-G7

<400> 864

gccgnccnnn nnnnnnnnnn nnnnnnnnng ataaacaacc actcaaaggn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn caagtaaaaa caaatagaac cattaanaat acagtactca 180

cactcacaac gacaacgtac gttcncgctc gagc 214

<210> 865
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-033-Q1-E1-H9

<400> 865

ttttttttt ttttaagact tttaatcaat ctccacaaag atgagaccaa actcaagaat 60

cctgaatact gatgtataat actaatacaa ccctcccagc aatttgttaa agtttaacac 120

agaagtggat atatatttat aagcttagct tggttcaatc catttctgtg ttaaaccaag 180

ctaagcttat aaatatatat ccactggctt gtgatcttgt agctttttct tggactttct 240

tatgaagaag aacccactat gggcaagttt ggtgcagttg cccattcagt ccaagaccca 300

tcatagattg ccacattagt ttttcccaga cgataaagtc ccaatgccaa aatacaagct 360

gttacaccgg ttccacatga ngccgcaatc gggnctgtcc agaagataa 409

<210> 866
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-034-Q1-E1-A10

<400> 866

ttttttttt ttggaagggt agaaagaatt gcatttaaga agaatgaatg aatatagtaa 60

aacatttttt tacaatcagc taatctagaa gctttganaa caatccaatg ttgatttttt 120

ccantttgac cctctgaagc ttaagtaact acnagttgag agtgtccaag agatggncaa 180

ggagataaca gaggcagggg naanattccc atgtctttac tgtctgctcc gtcccaaaan 240

cccttccaac ttgatggcgt taatgganaa ggcatcagcc tgaacctgag nttcttccct 300

cttaanagct ttacggggtg atcaagctgg ngtttcnanc cgccgtcacc tgtctcttcc 360

tcggttgccg tttaaaggaa aataagcctc n 391

<210> 867
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-034-Q1-E1-A5

<400> 867

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnga tctgatgatc 60

cttaattaca agaagtgcac gaaaatcact agagaaaaag cataattaca aattcacccn 120

aaatcattat tcccggccca ganttaaccc ttccttaatt gccctttcac ccttcaattt 180

taactttatt cccattttgc cctcctctgt tttttccaca gagaaganaa gagcatctaa 240

tcnaatccaa aatctcttcc ggtggtgttt tcangcttca attccaatga tcaacggggg 300

agtaccagtg taggagacng cgngttggtt catcgggaaa nggaattcan angcttcttc 360

tccgagtcag aaaagtcctc atgatngtcg gtctgccgcc angtgc 406

<210> 868
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-034-Q1-E1-B5

<400> 868

ttttttttt ttataaacat tgtctctact caccatattc aacagatata tagtatatat 60

catgtacatg tattaatttt acactgaata aatctataaa aaaatatata ttgcaacccc 120

caataatatg aaacgaaaaa agatagaaaa cgcaaaccca ctacggcttt agtacataca 180

ttcatatata tgaatagatc atagatgtgc atttcaaagt tatgacctga tcaatggcca 240

ggtatatttt cacactgttt cnaagatgat agtgcaaagt gtacgtcgag cgtggcgcgc 300

ctacggnccc tacacaacgt tgggtggtaa cgcatcttat acagagggaa ggaagagacg 360

cctcctngna agtggactga agctgatcat catgggcaat tagtggnccg c 411

<210> 869
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-034-Q1-E1-B6

<400> 869

nnnnnnnnnn nnnnnnnnnn nnnnacctga agttatgcct caaaatcaac attttaaagg 60

cagaagcatt attagataga tatcatccat aaccataaga cccacattca ctgttaactt 120

atcgatatta gacagaaaac tttcaacagc gaaatacaaa acaagagaga gaaaactaaa 180

agacactcat ctacaactca aaatgcgcaa aagaagcagt taaaaaaggc gttgtcacgc 240

cgcaagggtt aagatttggt atttcatcct aggcctcgaa cccttacatc tccgactaac 300

gccgggtata agacggtttg ctactactcc cgagcccgtt tanaaccagc ttttctgggt 360

tctggangtt aggaggcaac actttggngt gggacatata aagggaataa ggcaaaat 418

<210> 870
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-034-Q1-E1-B8

<400> 870

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngagagaa aaacgagtta 60

tttgattaat gaaaaaaata caaagtcttg caaattttac atctaaacaa gctctctttc 120

tcctctcaca ctcacgaagc aaagactgaa gcaaaataca cgataaaact tggctcactt 180

tccgggaaca aagttggtgg cgaaggccca tgcgttgttg ttaactggat cgngccaaaa 240

tgggcagcaa ggntctcnat cggtcccnta ncattgacga tggnttgaaa cgaanaatcn 300

aagacatana gaaacanagc caatcttcng ttcctgagcc tcnttcacct tcaagtcann 360

cgaatgcctc tggggtcggg angccaaaac ccaatggggt ccgaagctgc caaccggggg 420

t 421

<210> 871
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-034-Q1-E1-D2

<400> 871

ttttttttt ttgaaaccga tgtatgattc tcattactaa cttatatgat gattaaaaac 60

ttcagaaaag aaaaaactan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnttaagg aaaagtaacg agtatagcgt ttataaataa 180

agattcgaat tgggcaacct cggaacgggc aaggcaacaa gaggggactt gagcttcaag 240

acaatcccaa acttctcttt caaatccaaa atgtggccct tccggtatct tccaatcaaa 300

cgaatgcaat agcgtcccga gagtgtacaa aatcatcctc tcggngaagt gctatacctg 360

cgcaaattct cctgccagat tcaaaacggg 390

<210> 872
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-034-Q1-E1-D5

<400> 872

ttttttttt tttgatctca aagtattttt tatgttgtgt tgataaaaag agattgcagg 60

aaacaaaata attgattgta acagaaacac aaagtttgag taaagtgata accaaaaaca 120

aacaaacaac atcaaaagat ctctcacatt ctgcgtcggt ttggcaccaa ttctggattt 180

cccttcttca tcatcgctac aaattcttcg tagttgattt ttccgtcacg atcggtgtct 240

acttcagcaa tgatctcttt gatgngattt atcatcaccc atgttgtatt tcttcatggc 300

tagctctagc tcttccattg gttangtacc gctgttggca ttgtcannag aactggaant 360

ggcggtgtac aaagtgatcc tcaagtttcg attccggttc anaaggcaat tgggg 415

<210> 873
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-G4

<400> 873

ttttttttt tttatgttga acgaagcaat tcatgctttt tcatttcttt attttctcaa 60

tacattatta aggctacata ttcggtattt aatatttaat cctatataca attaaaatct 120

tatgtgatcc tcatgggctt cacaagtcaa tgaagattgg gctgggccga agtagactct 180

gacttaacaa aacgaacaag agacaacttt gcgatatcgg aaacggcagc atttcnaacg 240

gcggcggaat cactgatgag aaactcatac gccgcttcga aagcttctcg ccagaaccga 300

ggaaccttaa cgccaccgga gcgtccgtac acatcccaca tctgtctcan cactttctct 360

ctctcttcaa tttccagaac gtcnagatta tcgcccnaaa agagaatgcg tttaacgccn 420

ttagga 426

<210> 874
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-G6

<400> 874

ttttttttt ttttttttaa nataanacca acatttgttt tttcntcctt ttttacataa 60

ttcagaangc acgatcccac accttcatta cnattactac agctagcact ancctcaaag 120

cccttggtcc tgaaaatcac actanagtct ttgaacanaa aagagttact ttcatcaaaa 180

tgataaatac tagccaagca agcgagagct ttttccttcn tttgacagat cccgttttac 240

ttcgttactg cacaaatcct acttagattc catctccaat gccttttac ttacctttca 300

tgagtcacaa aagtctagta ngtgggaaac agagcanaat gtcaatcatc aagctgggga 360

ccgttggatg aacaagaatc tacggtggaa ggantcatcn cctggtttga cgaatgaaan 420

aaag 424

<210> 875
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-G8

<400> 875

ttttttttt ttgtcgtctc tgaaacattc tacatttata tcaagtctta tggattttac 60

aatgcttaag aaccctaatt tccaaatcca gtttttggag ttatgtggta cacaaatgtc 120

atcaantccc cctcctaaac aaaatacatt ttgccatcca tacaagtttc caaatctccc 180

tcatcaattc acattttgcc accaccatct acaacacctt tttgcaactc taatgctccg 240

gctccatcat ctgaggagat ttagaaagcc cctatcaaat attaccgctt tctccatctg 300

atatttcttc aagctttgcg atggcatcca taagagctaa nttcatgatc tctcaagcac 360

tctctttgcc ttctctaact cngctgggtt ggggttaact gacccaaaaa cttttccacc 420

<210> 876
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-H1

<400> 876

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnacacatt aatagataca tccatttgaa tatctccatc tcctctgtat 120

caatctcaaa tctctggcca ctttattggc taaactctgt atatatacaa tatgatgctg 180

ataagacccg atttggcttt tctgctttct cattccttag agggatcaat ggttgtagta 240

agaactcgaa gaggtctcaa tgacagattc cgagattcta gcttctgatt tctcgttcga 300

gtaagtcgaa agtatagtga cccaaataan gctccacgca atctanccag agaagtcgtt 360

gttctactgg gaacaaancc gtatntgatn aaatgagcca atgggcaaag cttt 414

<210> 877
<211> 384
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-H2

<400> 877

ttttttttttt tttaaaccga aatatagtag tgaattaaca tcatagggat gaatttggta 60

gacagatgaa ttaatggaaa gggtttaaat tgttgctcgg atgctattct gaagaagaag 120

aggatggttt tgcttcaaca acaggtttgc ctttctctct aagtttagca atggaagcct 180

tcatttcttc tttacgcttc ttactcgcca ataccttggc ctgaactccg gtcacggtcg 240

ggtctttctt ctccttaggt ggtggtggag gcggccgtct tgctgccgcc attgcctcct 300

ccttagcggc cagagcgttc caactccata ncgcaccgcc tanccccacc aaaattgtcc 360

tgcgattaat tgggggggaac tgca 384

<210> 878
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-G3

<400> 878

ttttttttttt ttttttttaga gagcaaaata tgagttcata cttcacataa cactaaaagg 60

cttaancaaa cnaacaaggg aaataagcaa aatgatgtcc taaagaacgc aaccagaatc 120

aagtcataat gtaacttcac tgtataaatc ataaatcttg tttctttttg tgggcttaag 180

ataaaattct ctcacttagc catcatgact ttgacnaatt cttcatagtt aatctganca 240

tcgccatcaa catccgcttc tcggatcatc tcatcaactt cctcatcgga tancttctca 300

ccgangattt gtcatganat gtcgaagctc tgctgcacat atgaaaccat tctggtcctt 360

tatnaaagac ctaaaaagct tccttgagcc cttcctctga atcagtgtcc gtca 414

<210> 879
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-H3

<400> 879

ttttttttttt ttttttttttt atcaatccaa cattctcttc caaattagat ttataaatca 60

tgaatatgta agctcctaca cgaacaagag aatatctaga caatttactt gacggtgagt 120

ttcccaacca taccagcacc ctggtgcggc gcacaataga aaccgtaaga gcctggctct 180

gtcaaagtaa cctcgtaagt ctcccctgca ccatttagaa gcgctgtctc atccatcgag 240

atcttgcttg cgtccacacc actagggatc tcgtcttcgt cgaacaccac gttatgtggg 300

aaccctgcgt tgttcttgaa nacgatcttc tctcctttag ncaccgtgaa ttcaganggt 360

acnaaagcaa gggaaccgtc gtccgatnct aaaagaacct ccatggncat cgca 414

<210> 880
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-031-Q1-E1-H6

<400> 880

ttttttttttt tttaagcgaa tgttttcata ttataatttg attggccttt cttagacatc 60

ccaataaaac acttacacta gagaggaaat aataaggcca aaacatacac acgcaagcaa 120

gaaattaact ttgaaaccat gtattattac ggacttgatt gcctcttcat caagattgaa 180

ggcttggttc aaagaggacc tggaaaagtt ccactctccc tctgctcgtt ccacttgtca 240

acccattctc caggacagag ggcacggtaa tacttggcaa acctttcaca gtcattagac 300

tcctctccct ttgcagttgt acanctgtga aactcgatgt accgagtgaa gcagtgcctc 360

gtcttccang gctgatctga ttcaatgaaa ttggagaaat tacnga 406

<210> 881
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-032-Q1-E1-B3

<400> 881

nnnnnnnnnn nnnnnnnnnn nncggantaa gaatcacacg cgataaaaaa aatatttgtt 60

gagtgggaag agatacatat acttttgttc tatgaacaaa tcgaaacttt aaaccaataa 120

taaaagtact ctcttatcaa aaaaaacata aagacaattc ttctctctct catttaaacc 180

caaagtaaac gccacaacaa caatggcaca tcagtcaccg accagattgt cccatgaatg 240

aagtgcaaga acaacanacc cattaaaaaa acttacattt ccangtatgg aatgtanaat 300

caaacttgat attgcctttt catctcaana ccaagatcac aagacaattt cactgcttaa 360

agccaccagn attgggnnct ttgggttacc gangggtggg agaaagaant ccgtct 416

<210> 882
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-032-Q1-E1-B4

<400> 882

ttttttttt ttttttttt taacggncat aatttttcg aaattgacgt aatttgttta 60

caaaaatatc tttaaaaatc tgtggaaaaa aacagagaaa taaattttat taaataaaaa 120

attcaaacta aactagaagc atcaggtaaa ccttgacgcc aatcgtcatc tcctactaag 180

tgggccgaaa cgcgacggtt tccgccgctg cgaattcacg tttccgttaa cgttaaaggg 240

aaagttggga agcttcggtt tggttgttta aacggagaac gtcagttccg acaaaatggg 300

aacaattaag gatgatcctt aaagccacng tcncaaatac ataacacgtg gaaangcgtg 360

tttanactcg ccttaatttg ccnggagttc a 391

<210> 883
<211> 368
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-032-Q1-E1-E9

<400> 883

ttttttttt tttaacaaaa gatcaagact ttatcaatgc catcataact tacataactg 60

agtcatacat atcaattcgc ttattcagtc tacaactagc aaagatttct aattcctgta 120

aatcacatac tgtagattcc acattcgagg tcctcaaata tcaacttgca gcaagaagct 180

tttgcaactg accactctcc aaagcagctc caagatcatc tgatccacca atatgcttgc 240

cgttaacaaa aacttgcggg acagtacgac gaccaacgaa ttctaaaagc tcatactgga 300

tttgatctcc gtcctctctc tgatcaagct ccacaacaaa tggctcttcc ttaagttggc 360

tgaanaga 368

<210> 884
<211> 261
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-032-Q1-E1-F9

<400> 884

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn acatgaaaac aaagttcttt 60

ttattgagat atctgaatta atcagactga atacaaatat ggcaatccgg agtaatgaaa 120

ccacgcactt ggcttgtttt attcaaacca taattattca ctctagttac cactgagtan 180

tangcnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnncggt ttagttgttt t 261

<210> 885
<211> 355
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-032-Q1-E1-G12

<400> 885

ttttttttt ttttgaaaaa taaaaaatct ctatattatt tacattatcg cctaaattca 60

aacctcactt ttcacataca gaatatgtac atatctaaca aaagggtaaa aatagtaaca 120

aaagtgaaaa ggtagaaaat agtanaaaag agttaaagaa ctttttcatc atcatcatct 180

tcttccaccg tcgttattgc caccgccggc tccagggaaa tttacagaaa cccgacccgg 240

attcaattcg ggtttggacc cgtttgaaat ctgagtaagg acaagggata gtgantccac 300

cttcttgaga aaacccagat tcgtcntcag ncctctctaa agaagctcac caggc 355

<210> 886
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-033-Q1-E1-A8

<400> 886

ttttttttttt tttttataaa ttagtgatgg atgtttaata catacagtac attgataaac 60

catacacata gtcataccat aaaccattag tgaaatgcag tacaaaaaca aggtttagat 120

aacagagccc gtttgaggcc caataagccc aagaacctca tcccaangac catgactttg 180

gncagctgaa acnaagctca acangnagtg gagctacaag gcagcancag tccaataccc 240

tcccaagatc tcctggcttt taactgctct ttttccccaa ccacanttac ccaatcanna 300

gaaanctang cctcacttcg tccaaaccaa nattcctctn caccatcctc tgcagccaag 360

tcctacactc cnctnctccg tcccatangt agaaatcctt tcagncactt gtcctgaata 420

<210> 887
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-033-Q1-E1-B8

<400> 887

nccttttttt ttttttttat tttgcaaccg aataatcata tattgaaact caatactaat 60

cacannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngt agcaccacct 240

aatgaggaag cggcatttcc agctggagta gtggttccgc tagagcctga angtgttgtg 300

gtcccacccg caagtgggag gagtggttcc ctccagtact tggggttgat ccagggtgct 360

ggggtangca ncggcagcag gagtagcacc tnccagttgc 400

<210> 888
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-033-Q1-E1-C2

<400> 888

ttttttttttt ttttttgaag aaagtgaatt ttttatatat aataagaaac ataggactgg 60

atcagactgg gaaccangat gaatattcat aatggtgaat ccttacaaaa gactacacag 120

acacaacaca tgagttttga gaccgtgact aggttgatta gagatctcaa ntgctagagt 180

catcatcaac ccagaaacaa gaatcctact tttactgaca ctcttgattg ttacacgcag 240

aaataatana gacacaggaa aagagaatta actgaactct gcaagacttt tanngtggac 300

tcacatgntg gtgcatcggc cctttnccnt cggtttggtt gcgctggcan tttgcnggga 360

accggtgtga ctctgaggga tttgtatgtt naact 395

<210> 889
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-033-Q1-E1-D2

<400> 889

nccnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn naaggccaca atgccgaana cttcttttan aaancatttt gaacanactc 120

aaaagccact aacatttgtt ttancgctag ttttttgagc cggtgtanan agatagatac 180

acatgcatga aaaatgacct aaagtgtgtt aatgttattg ttanaaggac tgcctatatc 240

catcccatcc tccttccggt tctttcctct tcagaacacc acctgacatt tgagacattc 300

ntgcntgatc ccccttcgac ggtacggaan gcagaggaag ataactgcct tganacnang 360

tgtttgantc ggcgcctccc ncngtttcan gacctccaag ganccagaat 410

<210> 890
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-C5

<400> 890

ctcgaggtca agattgatgc aaacatctga gtatgctgaa ataatcgctt cagaatactc 60

agatgttatg gtcaagattg atgcaaacag gccaaaagaa gtggttttcg aggagaccca 120

gactctactg tctcagatac agttaaagag aatgataaag actgataaag catctcctgt 180

tcaggataaa tggagaggaa taccgacgag attgaataac attccacatt cgagggatat 240

cagggcttat ttttatgaag atgtgctgca agccacaatt agatctatca aggatggtaa 300

cacccgtctt cgggtggaca ttaatatccc tgagctaaat ccggaaatgg atgtttaccg 360

gataggaacc ttgatggaac ttgttcaagc ntt 393

<210> 891
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-D1

<400> 891

ccgaagagct cagaantcgc gnccacncgt acgtaagatc ggaattcggc tcgagaaacg 60

atacctaagc tcaattatct tctctgcaac aaactccaaa ggatccgaga gagagagctc 120

tggaacgata ttaacatata tcatgaagaa aaagattgaa gtattgatat gggaataact 180

aaaacttctc ctaatactac aattctcttg aagactttnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

ggattcgacc gatcagattc tcccaattta acaactcagc agaagcaaga gcatcaaagg 360

gtagaagatg gacgaggaat cttcagtcgc cggaggtaag gattccgggt ctacgaatca 420

agccggtatg ttatcccgaa atgttaaatt tccccc 456

<210> 892
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-03-Q1-B1-D10

<400> 892

tcgagcaact acaaacagta ctggtctttc ttccgccgtc caaaagaaat cgaaaccgcc 60

gagaaagttc cagacttcgt cgacacattc tacaatctcg tcaccgacat atacgagtgg 120

ggatggggac aatccttcca cttctcacca tcaatccccg gaaaatctca caaagacgcc 180

acgcgcctcc acgaagagat ggccgtagat ctgatccaag tcaaacctgg tcaaaagatc 240

ctagacgtcg gatgcggtgt cggcggtccg atgcgagcga ttgcatctca ctcgcgagct 300

aacgtagtcg ggattacaat aaacgagtat caggtgaaca gagctcgtct ccacaataag 360

aaagctgggt ctcgacgcgc tttgcgaagt cctgtgtg 398

<210> 893
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-03-Q1-B1-D11

<400> 893

agggacaagg cttcgcaagc ttcacttgtc gttcgttggt tcagatgaag atcatcgttt 60

ggtgaaatca ggagctctta ctgatctcga catgttttat ctggcttctt tgtacttttc 120

ctttaggtgt gataccaata agtacggtcc tgctggaacc tatgtgtctg ggaagcctct 180

ttgggctgca gatttgccta gctgcttgag ttattatagg gttaggtctt tcttagctag 240

gtcagctggt tttcagactg tgttgtctgt accagtgaat tctggagttg tggagcttgg 300

ttctttaaga catattccag aagataagag tgtgattgag atggtgaaat cagtgtttgg 360

tgggtctgac tttgttcaag gctaaagaaa ctccc 395

<210> 894
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-D4

<400> 894

tggntcgcca gaagagcaga gaagtcgcgg ccacncgtac gtaagancgg aattcggctc 60

gagatgcaaa gaacgagaca gttgttgctg tcgagtttgg tatctccagg acaggaaaca 120

gtgcaagaat tttagttggt agacctgaat ctgctgaaat tagaaacctt tcgtttgtgg 180

gtgacttgat gatggacaat ggaaggactc tgagctgtat gattgagtat gaggcaagtt 240

ctaagagaat gatggttcga ttcagaaaat ctggttcggt aaagctgttt gatccgttct 300

tctctttctc ggtagacttg gccaagttat ggaaaggtgg tgaagtcact gtgggtttaa 360

gctctgccaa tgggaactct tcttccaagg cacattttct ccattcatgg agatttgaaa 420

taagacatcc tcctccgatg tggatgcatt cagtgccg 458

<210> 895
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-C3

<400> 895

acgaagagca aagaaatcgc ntccacncgt acgtaagatc ggaattcggc tcgaggaagt 60

tgctcatgat gaattcaatg gagcttcttt tagtggcgcg gtttttaacc tcgccacgac 120

tataattggt gctggtatca tggctttgcc tgctacaatg aagattcttg gacttggact 180

tggaatcacg atgattgttg ttatggcttt cttgactgat gcgtcgattg agttcttgct 240

taggtttagt aaagctggga agaatcgatc ttacggtggt ttaatgggtg gttcttttgg 300

taatcctgga aggattttgc ttcaagtcgc ggttttagtt aataacatcg gtgttttgat 360

tgtatacatg atcattatan gtgatgtgtt ggctggaaag acngnaagat ggtaaccanc 420

aattccggtg ttcctcgaaa ggatgggttg g 451

<210> 896
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-D5

<400> 896

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tgcctcaaga agactggcca gagaaagtag ttgctgccct ccgagcattt ttctgacttc 180

caaatacaac aaaaaaggac agaggtactg ttttggtggg gtgtttagag tcttacctct 240

ttgatggatg tgtgcaaagc ttcacattgc tctttggaga ggctagaagc agtctgcaac 300

gggtggattc tggcctgcga naaaantaaa ctagaantta atcgtacagc atgtaaaccc 360

gtttcttctg gtcgtcaaat gtncaagaag nacaaaggtg gatactttgt gaatca 416

<210> 897
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-03-Q1-B1-D6

<400> 897

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ggtcggaatc tcacatccgt caaatggaag acggaaaagc tatccagctc gtccttgatc 180

agagcactgg atgtggattt gcttccaaaa gaaaatatct attcggacga gtgagcatga 240

agatcaaact cattcccgga gactctgccg gtacggtcac cgctttctac atgaactccg 300

atacggccac ggtgagagac gaagctaaat tttgagttcc tgggaaacag aagtggtcaa 360

ccttactcag tgcaaacaaa catatttgct caagggaaaa g 401

<210> 898
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-D9

<400> 898

ctcgagctcc cacatacatt tttgtgatca aacaactaat caatcaaaag atggaaggca 60

agactttgat tgtaagtgtg ctcataatga gtctgttcat ggcacaaaat caagttgacg 120

caaatatttg ctgtccgtcc atccaggcta gaactttcta taatgcttgc ctcttcgcgg 180

taggtagccc gtcaagctgt atacgcaact cgagttgtct tgacattagt gagtcgacat 240

gtcctagagg atatacgaat gacattctcg aaaacacagg tgatgctgtc actgaatact 300

gcaagttggg gtgtgtatcc tctgtttgcg gtgctttaac cattctccag aactccgatg 360

caagtgaaat cgtgaatgga gaagttgaaa aatgtncca 399

<210> 899
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-E1

<400> 899

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tatcttagca tttgcagaaa gattttactc tgctgatgaa gtcaagtttt tgtcaacttt 120

accggaccct gaagttcaga gaaaggaatt tattaagtta tggaccctaa aggaggcata 180

tgtgaaagca ttaggaaaag gcttttctgc tgcacctttt aataccttca caatccagtc 240

caaggttgga acaaaaggag aatacaatct ttgcaagatg actgaaatga ctgcaagttc 300

gctggaggag acaaacaaat gcgatggaga atggaagttt tccctttttgg agttggatga 360

ttctcattat gctgcaatct gtattgaaga tgatgaagct agtggaggag ctcctatgaa 420

ggtgattgtc ccaa 434

<210> 900
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-E12

<400> 900

ctcgagggga gagagaaatg gaggaaggtc taaagattca atctttggtc atttatccga 60

tcaaatcttg ccgtggaatc tctgttcctc aggctaccgt tactcatact ggttttcagt 120

gggaccggta ttggttagtt gttaactata aaggaagagc atacactcaa agagttgagc 180

caacccttgc tcttgttgaa tcggagttgc ctaaggaagc cttcttggaa gattgggagc 240

caacaaatga ctcattgttg gtgataagag ctcctggtat gagtccgtta aagataccgt 300

tgactaggcc aagctcggta gcagaaggtg tgtcgatgtg ggaatggtct ggctctgctt 360

ttgatgaagg agaagaanct gcgaaatggt tttc 394

<210> 901
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-E4

<400> 901

gccggaagag cacagaaagt cgcggccacc cgtacgtaag ancagaattc ggctcgagct 60

cctctctccg ccgctgtgac agaggaaatc agcctcgcta ctcagcttaa ccgtgcttca 120

tccgatcaaa ccaccgcatc tgagcaaaag gaagtcactg atatcccgca ggaagttagc 180

ggcggcgatg atggcgctaa gttggaggat ctggtgaatt tcctctactt tggttcactc 240

ttcgacgtca agtcacagaa cgagttcact tcgataatgt tgaccaggac tcatgagaga 300

agttgctgct tgtcttacga ttacgttacc gatgatgcca ctgatntcct cggngattgg 360

gaattggntt ccaattccca actttgggac ccgatggntt cccgtccggt gggattcaag 420

cttatctcaa caaagaacgc tttgggagcc gttgttgt 458

<210> 902
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-E5

<400> 902

ctcgagctcg atcaaaagaa tcatcatggg aggaggaaga gctatggcga cggcggcgaa 60

ggttgctgga atcggagttg gtaaaggagg attcaaggga tttggatttc ctccggcgac 120

tgagcagttt cgtgttaaaa ccgcggcggc tgcggcgtcg tctaaaccgg tttcggcttc 180

gattacatcg gcggttcatc cttctgttga agaagatggg atgattatgc agagaccggt 240

ttgggatgat tgggaatttg ctgaagaaga accgattcct agggttgttt ttagcaaacc 300

tcctagtctt gaagaagcta aagaacctac tgaagatctt aaagaagcaa ttaatttggt 360

gtanatgtca tcctccaaat ctctgctgct atggnaa 397

<210> 903
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-E6

<400> 903

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atgcggtgcc aggtgacacc tccgtcagaa gagactctca cgtgtggcac ctgtgtcact 180

ccatggcacg tgtcgtgtct ccttcctgaa tcactcgctt cttccactgg agattgggag 240

tgtcccgatt gctccggcgt tgtcgttccc tccgccgctc cggggtaccg gaatctccgg 300

acctgaatct tccggttcag ttctcgttgc tgcgattcgt gcgattcang ctgatgtgac 360

tttgaccgaa gctgagaaag ccaataagag ggaagagact 400

<210> 904
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-03-Q1-B1-E7

<400> 904

atttctagtt acacactaca ttgctgagcg ggattcttcc actgtcaccg tcaaggtttc 60

aaaaactgaa ggagactggc agaggccaaa ccgccgtgtt catgtccaat tattactagg 120

aggcggtgca atgcttgatg cttggggaat ggatggagag tttatccaca ttaaggtgcc 180

ttcagaaagt ggaatttcag agttaatatc cacaagcaat gagcgcttta aacttcatat 240

ggaaaataca aaactgatac ctgagaagga agtgggtacc tggacaaaag ggaatggaac 300

tttcaaaggg accaagtttg agttaagcag tggtgattgg gaaacctaat aataattccc 360

tgggggttgg tgggaaggat aatggcctat gacacatgtt tccctcaagg aat 413

<210> 905
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-F3

<400> 905

gggaatgaat cntttgacac gccagaagag cacagaaagt cgcatncacc cgtacgtaag 60

ntcggaattc ggctcgaggt ggtggagatg gaaatgatgg tggattttgg gggaaattgt 120

tttctccttc accagcggtt gctgatgaag aacaatcacc ggattgggat tctcatggtt 180

taccggcgaa tatcgttgtg caattgaaca agcttagtgg tttcaagaag tataaggtat 240

ctgatattat gttctttgat cgacggagac aaaccactat tggtactgaa gattccttct 300

tcgagatggt ctcgattcgt cctggtggag tttacactaa agctcaattg caaaaggagc 360

tttaaaccct aagctacttg tggaatgttt tganaaaagt tatttggaag ggaaaacgaa 420

acctgatgga aacccaagtg ttacaaaccc cttttgccga aaagtacatn gcaaatctgc 480

<210> 906
<211> 329
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-F7

<400> 906

gctaccgttc gccttcttcc actgagctcc tggagtctgg taaccattct cctacatccg 60

actctgttga cggaggtaag atgacggcga agcgtgggat tggacggcac gaatctcttg 120

ctgacaagat ccaacgccat cgtgggatta tacttgtgat ttcggttccc attgtgttga 180

tcggtctcgt tcttctgcta atgcctggga gatcgatttc tgattccgtc gttgaagata 240

ttctgtgcat aatcgcaaag gaggtcctaa ttcganangt ccgaagaatt acgctgtgaa 300

ttttgatgcc tggaattctg gtancgtgt 329

<210> 907
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-G1

<400> 907

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cgacgacgtt cttttcggtt ttcttgacga aggnaaccag tcaccggaag atttctccgt 120

aaacctcaac gccggcgaag atgacggtga cgaagacgac aataataaca attctgaana 180

taacaaagct ttttggcagg aacacgaaca acttcttcag gggacactgt ataggacaag 240

ttccattgag acaaagatta gacaagctac aaaagaagcg ttgaaacaag ttaaatctaa 300

aggtccttaa tgtgtttgcc ggcgaacaat tgaccgnggg ttgccggant tgcctacgtt 360

gncgaaatcc tccanacacc taagagattt ccccggntac gaattgcgtc aaccccaa 418

<210> 908
<211> 375
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-G4

<400> 908

tccttcgctc cttaggaaag tggtcgcgca gctcgtggtg tacaacctgt ggaggcagag 60

gaatcttgtt cttcacagct ctcttcgggt ctcttgctcg gtggtctttc gtttagttga 120

tcgcgagctc cgcaatgtca ttttgtctag gaggcataag aggcgttggc gggagctttt 180

gttgctttgg atccgttagc tttccccaaa tcttctcaag cttattgtaa ccttgttttt 240

aatttctttt tgccttgggt gctctacttt tggtaaactt ttggtattaa cttaactcaa 300

tttaaaatga tatttaaaaa gtttaacaaa ananaannnn nnnnnnnnnn nnnnaaaaaa 360

aaaagggcng gcccc 375

<210> 909
<211> 112
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-G7

<400> 909

atgtatcata catatttcac ttcaagatgt gatttcttct atttttgtgt aagaatgttt 60

tcnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nn 112

<210> 910
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-H1

<400> 910

gagaaaacgt attcttaaaa gcaaccattg gtgtgattga ctctataaga gaattcgtca 60

gcgtgaagca atctccaatc naatcgcagc atatcttctc cgattcctat tcgtctctgc 120

aattgaatct tccggtaggc gaagatggcg acgtctgcga ggatttgttg cggaggagga 180

agtgcatgcg ccgttcgttg tgatcgtcgc acgttaaatt tgaattctcg atcgtcatgt 240

gttgttccag tgacgaatcg acggaatatg tgtgcgatcg ggaagatttc gatgtcgatg 300

gangattttg tcagcaacgt ctgccgcggt gaagantgaa aggatcggtg gaaggaaacc 360

cngtggatct gttgtgtcca aggaaaaact anatgtgtg 399

<210> 911
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-F4

<400> 911

agaaaacatc aaatcatgag tgggcaagag aatcatgatc atggccggat ctcttctacg 60

cccgccgccg cgtcggagcc ttccaaggct gctgctcann nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn caccggtgcc 180

gccgcaacca ccatgccagc ggaatccaat ccttacgttt ctccttcccc tgccccaagg 240

aatacgatgg attcggtgaa ggatacgtta gggaaatggg ggaaaatggc tgccgacgcc 300

accaagaagg cggaggatnt cgccggaaat ttttggcagc actttgaaaa caaggccaag 360

ttgtagcaaa tgctgctgtt tcacgaattg ctcangggac aaaatac 407

<210> 912
<211> 395

<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-029-Q1-B1-H2

<400> 912

tctctctgaa gcatctttca aggtgactgt tcttgaatca cgcgatagga ttggtggtcg 60

tatccatacg gattattcct ttggttgtcc tgttgatatg ggagcttcat ggttacatgg 120

agtctctgat gagaatccct tagctcccat tatacgccgt ttaggactga ctttataccg 180

aactagcggg gatgactcca tcttgtatga tcatgatctg gagagttatg gacttttga 240

catgcatggg aataaaattc cgccgcagtt ggttactaaa gttggagatg cattcaagag 300

aattctcgaa gagacggaga aaataaggga tgaaactgcc aatgacatgt ctgttcctca 360

aggaatatct atcgtcctgg atagaaatcc aaaac 395

<210> 913
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-H3

<400> 913

gaatttagan caaaactata ggccaccnat gacgtcnaat anacgcgtac gtaagctcgg 60

aattcggctc gaagcatgaa tccccatgcc aaaagagggt caaaacctgg gactaaaatt 120

cttcgcccct ttcaagcttg ttagctattt ttatagatcc cctcttcttc ttcctcataa 180

aagtccaaga gcaaaacaaa tgtattatga ttgattggcc gatgactaaa gcatttgtag 240

ctgtaagaag tgtaacagat gttatattca ctatgaacat tctacttcag ttccgattgg 300

cctatgtagc tcgtgagtct acggtagttg gagctgggcc agttagttag tcatcccaaa 360

aaaattgccc ttcattacct caaaggaaag tttttccttg acttgttcat aagtgatgcc 420

acttccacaa gatattgata ctaagggata ataccaacac anttgggtgc atcccggggc 480

aaactatgcg aaaaaacctt ctacg 505

<210> 914
<211> 421
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-H7

<400> 914

gaggggaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

atcggcgacg agctccatcc ggtttgtctc ctaatcagaa tctctgattt cccgatccgg 120

ctaattcctc atcgtcggat caattagatt atcttatccc aagnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngtcgt 240

cgcagcttcg gcagacccat ctctgccttt ggaatggaga ttctctcagg tcttcggtga 300

acgaagcgct ggtgaagaag ttcaagaagt tgatataatc tcagcgattg aatttgataa 360

ttctggaaac catcttgcta ctggggaccg tggaggacgt gttgttcctt tccaaaagaa 420

c 421

<210> 915
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-A11

<400> 915

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tttctctctc gcattagttg tttagggata aacatggcag gagaaggtga agaagatgta 120

cctagagatg ctaagattgt gaaatctctg cttaagtcga tgggtgtaga agactacgag 180

cctcgtgtga tacatcagtt tctggagtta tggtaccggt atgtggtcga agtgttgaca 240

gatgctcagg tttactcaga gcatgctagc aaacccaaca ttgactgtga tgatgtgaag 300

ctcgctattc aatccaaagt taatttcagc ttctcacaag cctcctccaa gagangttct 360

gcttgagctt gctgcaagta ggaacaagat acctctggca aa 402

<210> 916
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-A12

<400> 916

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gatcaaccga cagataggat ggtcctcaaa ccgattgaaa gagttccaga gcatgcaagt 120

caaaggccag tgagttctcc acgtgacatg agaacgagga aattcgacca aaaggatggg 180

cgaaatgtaa gcgacattgc cagatccgaa actcagagga gaaactggcg tgaaaatgaa 240

aacaagagcg caagacagca acagcagact caggagaaga caagacatcc atcaccagag 300

acatggcgaa agccggttcc ccagaaactg gattcaccaa atggaacagg gattcgtcac 360

ggaaaagcag cttctgctcc tgagcctaac tcaaanc 397

<210> 917
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-A4

<400> 917

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agtgcaagaa gagaatctgc ttacaaaaga aagaaggcag tgttaagtct ctgatttctt 120

cttgataaca ttactactat gtacagattc agcaacacag ttattggggt cttaaacctt 180

ctcaccttac tagcctcgat tccaatcatc ggaaccgctt tatacaaggc aagaagcagc 240

acgacatgtg aaaacttcct ccagacgccg ctacttgtta taggattcat catactcata 300

gtttcccttg cgggattcat aggagcctgc ttcaacgtgg catgggctct ttgggtgtac 360

ttaagtggtc atgatctcct catcgctacc ctaatgggtc taacgctatt tggtctggtg 420

ggtgacgagc caanggaggt ggagtggaag tgncaaggga ag 462

<210> 918
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-A9

<400> 918

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tcatcagctc gtgaattcct gggattcttt caacatggtg caagattact tggctggtgg 120

tctatcgatg aaggaagtcg ggaagaacaa gcaaggctct actctggaga agctactgga 180

tacaacacct tctcaccaga ggttgtgaag aaaatgccaa agtctgatct tgttgaagag 240

atatggagac ttcaagctgc attgagtgag caaacagata tcaccagtta tagccagcaa 300

gagtacgaaa ggcttcaaaa cgagaagatt ctttgtagag tttgctttga agatccgatn 360

aacgtggttc tactcccaat gtagacatta cgtcctccgg aagta 405

<210> 919
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-B12

<400> 919

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aggtagagaa actcaaactg gcaagccatc tcctgctgct gttcatgagt atctagtgga 120

ggcctacgag actagggttg cagaacagga gaagaagaaa ctattggatc ctgtgccact 180

cgatgaagaa gctaaggcca aaagtacgcg tctaaagcgc caatggggaa cgtgctggtg 240

ggagcaatat tgcatactat tctgcagagg actcaaagaa cggcgacacg aatacttcag 300

ttggttgcgt gttacgcaag ttctttccac agctgtcatt ttaggtcttc tctggtggca 360

gtcggacatt angactccaa tgggactaca agatnag 397

<210> 920
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-03-Q1-B1-B2

<400> 920

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tcacggccgc gctgaaatcc acgaccacgg ccgcgctgaa atccacgacc acggccgctc 120

tgaagaagaa gactctctcc gtctcctccc ttctcctcct ccgtctaaga gacaaggcat 180

ccccagacgc catgatctct ctcactccct cgttgtttct gaacaagacg gttgttcctg 240

gatgttccac acgcctctct ctgcgccagc ctaagaacta taattactcc tcctgcttcc 300

ttgagagtct tttcctctct cggatttaac caggattcca acgggcagcg ttttgattga 360

gaacactggc aattcatcct cctctctcga aaacttccgg cggccga 407

<210> 921
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-B4

<400> 921

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gagctagcta ggactcatgg tttccgtaga aggatgagga ccactagcgg tagagcaacc 120

ataaagcgtc gacgtgccaa gggacgttgg aacctctgtc ccaagtccaa ccctagcagc 180

ggcaaacggg cttgaagttt gtttctctct tcactctatc tgtaatcttg tttcatgtgc 240

ttttttttcca ccagaagata caatgagaaa catggttcgt tgagctcttt tctgcgtttt 300

aactctcttg catccttgat tcgtttataa atcaatgttc ttggaattca tcacatgtac 360

tactatacta cttgcttcat tgaatttgtt actactccga aaaaaaaaaa aaaaaaaagg 420

ggcgggcgcc cgactanttg agccccgtcc aaccccggga antaaa 466

<210> 922
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-03-Q1-B1-C2

<400> 922

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atcggttctg aaatttgtag ctatgcaggc aacggcttta tcatctgggt tcaatcctct 120

aacgaaacgt aaagatcaca gatttcccag gtcatgctct cagagaaatt ctctgtcttt 180

gattcaatgc gatataaaag agagatcttt cggagagtct atgacgatca cgaatcgtgg 240

attgagtttt aagacgaatg tgtttgagca agctcgttct gtgactggag actgttctta 300

tgatgaaact tcagctaaag cacgttctca tgttgttgca gaagataaga ttggtgtctt 360

gcttttgaat ttaggtggtc ctgaaactct taacgatgtt caacctttcc ntgtataatc 420

ctccttgctg attcggatat tataanggct tccc 454

<210> 923
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-B1

<400> 923

gagggagaat gggaacaaaa caagcaacat cgtctccgcc tttgtctcca gctgataaag 60

ccgatgcatt ttcacggctg agggngccgt cgcaccgccg tactaaacga actgattagt 120

tctttagatt ccttaagtct cacggaagca cttgcagctt cttcatcgtc tcccgttacc 180

atgcccattt ccanggggac gatgatcgct tcatcgaatc taaagcagca accaccacca 240

ccaacggtct tccgccgttg gcttngatgt tcggagaaca ggagatttcc aaattacnnc 300

aagagttngn tcctccaacn aatttgctct ttnaactttc cttcaanntc caagtttnac 360

cttccaatgg gccaancttn aaggccaanc aaccgttcga anctttcctt tgggngatgn 420

aattnaaaac aangttggtt ggccgggggt aaa 453

<210> 924
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-B6

<400> 924

gaggcagttg caacacaaga cagcaccacg tttcaagctg cttaaagatg ctcactcccg 60

gagaaaggag acccgcaccg gctgccaggc catgattcgc cttcgactca tccactttga 120

tcgatggaaa gttgatcaag tcaaactcga ccacaaccac tcctttgatc ctcaacgtgc 180

ccacaattcc aagtctcaca agaaatcctc ctcctcagct tctcctgcaa ctaagacaaa 240

tcccgaacca cctccccatg tccaagtccg gactatcaaa ttgtatcgaa cccttgccct 300

tgacacacca cccgctcttg gaacttcact ctcctancgg gggaaaccan ccgatttcaa 360

gccttgatna acttcaatcc ttcaanggcg ccttgggagc tcaaaagggg ggtttaaggg 420

gcccttgcaa ggat 434

<210> 925
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-029-Q1-B1-B8

<400> 925

gagaaatggc gaacaggagt tgacattata cacgttccat gtagaagtgc ggataatttc 60

aatatgtcga tggtcgtgct tgatcgagca ttctatcaag ctaagaaacg aggtgtaaga 120

atccgcggca ttataatctc gaatccttca aatcccatgg gaagcctact gagcagagag 180

aatctctatg cgcttttgga ctttgcccgt gagaggaaca ttcatattat atcaaacgaa 240

atctttgctg ggtcagtcca cggagaagaa ggagagtttg ttagcatggc tgaaatagtt 300

gacacggaag agaatatcga cagggaaaga gttcatatcg tgtatgacct ttcgaaagac 360

ttgtctttcc ggggggctta gattcgctgc tatctactcg ttcaacgaga gtgttttatc 420

<210> 926
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-C1

<400> 926

gggaaaagcc tgctccgtca caggtcaaaa tggtagtggg aaagacttca gtatttagag 60

tccttagaga tatctggccc actgtatgtg gaagacttac caaaccatca ttggatatca 120

aagaacttgg gtcagggaat ggcatgtttt ttgtcccgca gcgaccttat acatgtttag 180

ggacactgag agatcaaatt atataccctc tatctaaaga agaagcagag aaaagggcag 240

caaagttgta caccagtgga gagagctcaa cagaaagctg ggaagcattc cnggattcct 300

catttgaaaa ccaatcctgg gagaatgttc cggttaagtt taacccctg gggaaagaan 360

accgtnaggg tgggnttggg gatgccaact aaccaaattt ggggaaagac cataattaac 420

cnccccttggg ggaaacca 438

<210> 927
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-A8

<400> 927

gcgactgttt tagtctcatc cacatgaatc aatatccaga tttgggcgaa ttctgggttg 60

cttgactcct tccaaccgtt atagttgaaa cggtccggcg tttttgacgg cttcaatcac 120

ctcatttgag gtccgtcttg ccattccagg aagtcaagat atcaatttcc gaagtctatt 180

cttattagca agtgatgaca agagatcaga agcttcacct cgtggttgat tgtttgctga 240

caacttcttt catgcttttg ttctcggaaa agatccagtg atgagaagag aaagaatttg 300

aagataaaat tgaatccttt naccttttc gggttaaata agttggtttg gttttaataa 360

tcccgggaga atgtttccng gttgtttaac tccgccggga aaattgtgcc gggcttccng 420

tcctg 425

<210> 928
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-C3

<400> 928

ggagtatttc atcagacaca aagacggttg cactcttgac acanaaggag agaaagagag 60

agttgtcaga tgtctggaag ctgcaatcca tanacgagtc agcgagggtt ggagtttgga 120

gctctgcgca aaggacagag ttggattact gtcggaagtg acaaggattc tgagagagca 180

cgggctatca gtgtcgagag ctggtgtgac aacagtanga gaacaagccg tcaacgtttt 240

ctatgtgaaa gatgcttcaa gggaatccaa ttggatgttg aaanacgatt tgaggcgttt 300

acgccggaga agattgggac acanttatga tngatttgac ttnaaagaat aaagtttccg 360

agcagnaaaa ttgggaanga aagaaggtcc aagcccggga acaaggagga aggattgggc 420

caaaacccaa gttttcnt 438

<210> 929
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-C5

<400> 929

gaggttttat cttcggttag agaaagattt aaacgttaaa gagtctaagg gtgtagaagg 60

tactacacta gttgatggga aaggtagccg ccagagtaga cgtaggattg aaaacattat 120

gggtgatttg gccaaatcaa ttgagaaaga gaagaagatt tctgtcaaga tgcttaagga 180

tgttggggag ctattaagcc tcactctcag ccaggctcaa aaccgtcaac agctgtcggg 240

tttgacaaaa tttcgtcgca ttgatgtgac accatcacta gatcccctag acggacttta 300

tattggcgca catgggctat atacatcaga agttatccat ttaaaacgca aatttggcca 360

attggaaagg gtggaaaagg atctaagaaa ncaacaagat atccgaantt taagaataag 420

tttg 424

<210> 930
<211> 375
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-029-Q1-B1-C6

<400> 930

gtcatcatcc aaacatactc aagatccatg aagttatggc aaccaaatct aagatctatc 60

tcgtaatgga actcgcttcc ggtggtgaac ttttctcaaa agtcctccgt cgtggacgtc 120

ttcctgaatc aacggcgcgt cgttactttc aacaactcgc ctccgctctt cgtttctctc 180

accaagacgg tgtcgctcac cgtgatgtga aacctcagaa tctactctta gatgagcaag 240

gtaacctcaa ggtctctgac tttggtttat cagctttacc ggagcatcta caaaacggat 300

tgcttcacac ggcgtgtggt actccggctt atacagctcc ggaggttatt cacggagggg 360

atacgacgga gcaaa 375

<210> 931
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-D1

<400> 931

ccgaatttaa ttaaaactat aggcccnctn tnannttcaa ananaccctt acttaancnc 60

ggaattcggc tcgagctcca tacaaggata gaaggtnccc cngtancaat tggnaccgaa 120

tccgaattgt tgtcttancc ggtcgtcgct tcaatgaaaa ggaaggcttg ccagcattcc 180

ctatgggaaa tattgaccag acaagaatgt ggaaggtggg tgaacgcgtc aggaagtcca 240

gacctgctgg tgacttgggt ccattgtatc ccttcaccgc tggagtttat gtagcactta 300

tgatggctca gattgagatc ttgaggaaga aagggtcact cttactcaga aatcatcaac 360

gagagtgtga ttgaatccgt gggactctct aaacccantt atgcacgcca angggaattg 420

tccctcaatg ggttgacaac tgctcaanca acagcaaaga nttggggttc caaggaaatt 480

gggcncca 488

<210> 932
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-D2

<400> 932

agaaatcgaa tcttatcgcc gcgttaatat gccaccggcc ggagaactcc gacatcaatc 60

tccatcaaag gagaaactat cttccgttac ccaatccgat gaagcagaag cagcgtcagc 120

agcgatatct gcggcagctg cagatgcgga agctgccgga ttatggacac agatcaaggc 180

ggaagctcgc cgtgatgctg aggcggagcc agctttagct agctatctat attcgacgat 240

tctttctcat tcgtctcttg aacgatctat ctcgtttcat ctaaggaaac aaagctttgt 300

tcctcaacgc ntttatccaa cacttttata cgatntgttc cttaaacact ttttcctccc 360

gatncttctc ctcgtaacgc caaccgttgc aaatttaggc gctgctcgtg ttcgtga 417

<210> 933
<211> 197
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-D5

<400> 933

cccaaccctg agtctagttt cacaatcttc atgttttggg gacgatgtgt atggtttgat 60

gagcggatgg aataattctt gtgtagtgag ttgaattttg tttcatcagt agagcttgag 120

atttttttgta ttttaagatc atctgttaat gtaatggttt tatgttnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnn 197

<210> 934
<211> 351
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-D6

<400> 934

ttccatttat cacgatcgtg gatccagaaa ctctgaaaga tggcgtctga gctgacaaac 60

cggcgacacg agatagagca accagaagcg gaatcttatt atccaaagcc gataaagcca 120

tggttcgtag cgattcgtcc gatccgttac atgctcagag aacagagact cgtcttcgtc 180

ctcgtcggca ttgccatcgc cacattagga ttcacaatct tctccaaatc atccaaccac 240

caaccaattc cttacgacgt ggatccgctt tccggatacg gatgcgatcg gagtcatcgt 300

atctgcaacg acgatcataa gaagccanca tcgagtacat gagccggntc g 351

<210> 935
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-E1

<400> 935

caaaaaanac ccttacttaa gctcggaatt cggctcgaag ggcaacttct ctcaaagccg 60

ccgcaaantt tnctncaacg ggcgaaagaa ttgccgcttc tccttctcgt aatgtcatcn 120

ccgattaaaa ccaaaccgtg ggcaagtcct ttgggttaga ctcttcacaa gctaggctca 180

cgtgctctct ccactctgac ctcaaagact tcgctggaaa atgctccgac gccgccaaga 240

tcgccggttt tgctctagcc acctctgctc tcgttgtctc gggggccggt gcggagggag 300

caccaaaaga ggctaacgta cgacgaagat acagagcaaa gacttacatt ggaggtnaan 360

ggttaccggg tacgggaaaa caagtgttca aactatcgat ggggggtcct gaaganaatc 420

cccgntcaaa agctnggtaa gtncacaagg caaaaaantt ctgctccaag ccaactttc 479

<210> 936
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-E3

<400> 936

cgttattctc aaggagtctc cgctaaaact tccccttcag acnttattat tcnaccacaa 60

ggaatgggtc tatacgagng tgcttaagaa caaatggact gatcctgagt cagggaagtt 120

gaatctgagt aggaagatcg gtgcagggct agtcgctggt ggaatcggag ccgccgttgg 180

aaatccagct gacgtggcga tggttaggat gcaagctgac gggaggttac ctttagcgca 240

acgtcgtaac tacgccggag taggagacgc aatcaggagc atggttaagg ggagaaggcg 300

taacgagcct tgttggcgaa ggctccggcg ttgacgatta accgaaccaa tgattgttga 360

cggcgggctc aacctaaccg tcctaacatt aanttcaaag gaanggatan ttgganaatg 420

gggttaatga attgatt 437

<210> 937
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-F2

<400> 937

ctccattgat ctttctttac tcagatcttt cctcttcctc tgagatgtgg agctacgttt 60

ggttaccgtt ggtagctcta tctctcttta aggatagcat cataatggcc aaggctgcga 120

cgattctcct ccctagtcaa accggatttg atatttctcg gagtccggta tgctctgctc 180

cggatccgaa cctaaattac agaccggtta ttggtattct gagccatcct ggcgacggtg 240

cgtcaggtcg tttgagcaat gctacagacg cgtcctccat tgcggcttcg tatgtgaaat 300

tagctgaatc tggtgggagc acgtgtgatt ccactcatct ttaaagaanc ctgaagaaat 360

tctccttcaa aaagctaaaa ntgggccaac ggtgttatac ta 402

<210> 938
<211> 531
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-029-Q1-B1-F3

<400> 938

caggntccct gaatttagac caaaactann ggnccaacta anaanttcaa annnnaccct 60

tanttaancn cggaattcgg nncgnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn tncngcggag gagcttcttc ttcgtagggn gttcatcgtt 180

attaacgtta tcgcccctac gtcagctcca tctccagaaa catgggtgca ggtggaagaa 240

tgccggttcc tacttcttcc aagaaatcgg aaaccgacac cacaaagcgt gtgccgtgcg 300

agaaaccgcc tttctcggtg ggagatctga agaaagcaat ccccgccgca ttgtttcaaa 360

cgctcaatcc ctcgctcttt cccctaactt atcaagttga catcaatata agcctcaagg 420

ctttcnacta aggtcgccaa ccaaatttac ttctcctctc ctcccctcaa gcctctctcc 480

ttaacttggg cttgggcaat ccaantnggg ccctggtcaa agggctgtnt t 531

<210> 939
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-A6

<400> 939

tcagattcga gatgagctgc gacggaggca aaccggcgcc ggcgaaacta ggcgacgaac 60

aactagcgga gctccgggag atattccgat catttgacca gaacaaggat ggaagtttga 120

cggagctcga gttaggctca cttctaagat ctctcggtct aaagccgagt caagaccaac 180

tcgacacatt gatccagaaa gcagatcgga ataacaacgg actggtcnag ttctccgagt 240

tcgtcgccct cgtcgagcca natntgggtc aagtgtcctt acacggatga tnagcttaaa 300

gncatcctta naatgtttga ccgcnatggg aaccggtaca taacggnggn gganttagcc 360

cattcaatgg naagctagtc a 381

<210> 940
<211> 363
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-A9

<400> 940

tgtttggttg atccatccgt agtcgtagta gatctacaag ctctgaaatt ccacgcccac 60

atctcctccg tcctcttgag atccttctct tcattcattt tcttgctcaa cttgagttgc 120

ttccaacatc ttgcaagatt gtctttgagt tcattcaggt cttgaagaag agcactcttt 180

taagctgtgt gaaacttgcg ccgttcctgt gaagaactac ttttggcatt gcagatttca 240

gagagctgtg atttgtgcta tcttaaaaac ggacaagttc tatgttgtgg cggatgagat 300

gagggatgct atctgggttg atgaattttc tgaatgcctg tctctggcca cggtcagatn 360

agc 363

<210> 941
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-B1

<400> 941

caaaaatcat ctcaagatca gagcccagat cccaaaccga cgacaccaac cgggacgtcg 60

tcgacaannc ctgccggaga tagtagtacg acgtggtcac cggtagatac atcaatgata 120

tacgaaggag ctttggatca aaacaaagga tcaccgtcca cgtgtcatct ttcgttatgt 180

ggaatcacag tcacacttgc gctggccttt tgtcggatgt ggcggctctt ttgacaccta 240

actttgtctc ccgcgtaaaa cactgaagaa tgtgggccct cactgacgaa agccttatct 300

cgttccgggc catgtgaacc ggttattccc gaacgacgtc ggattgggtc agagttgaga 360

aaaaaagtta acaacaccta cagttacgaa nata 394

<210> 942
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-027-Q1-B1-B12

<400> 942

ctaacaccaa aaacaagtct ttgaagaaga ataaaaagat tggattttga taagtttagt 60

gaaaatgggg gagcttttgt gttcttcact gtggaacccg tcacgattca ttgttgcttc 120

tctcaaaagg tattttctgg gtttagcttc ttagaggttc ttcgttctta aaggtctgtt 180

ttttttagg ttgtgatact ttgaatgtaa aaaagggaag atttttagtt tcgatatgta 240

tatctctcgg atgggtttga gtcggagttt cccgccgctt tttgggggat tttcgggaaa 300

ttccaagggt taaggttgga taatgtcttc ctccaacaat cctctgccac ttttaaaatc 360

tcctca 366

<210> 943
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-B6

<400> 943

agttagatcg gttgaggaaa cacatagatc tataattaga cgtcgtagat ctaatcgccg 60

gncgtccttt aatccggtaa tcgtcttaca cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncttatg agttttatta 180

cgatgatgga tctggttcag gtctaagacc tcttcctgat tctgtatctg agatcttgat 240

gggatctgga ttcgaacggt tacttgaaca attgagtcag atcgaagcgt caggtaacgg 300

aatcggtaga tctgggaatc caaccggcgt cgaaatcagc gattgaatcc ttacctaaaa 360

tcgaaatcca agattgtcat acgaaagcag aagctaaatt gcg 403

<210> 944
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-A4

<400> 944

ggtcgatatt gaaaccaaat ccgttgagcc gatgactgtt tctgtacagc catcctctgt 60

ccaagtcgtt gcagaggtag tancaccaga agaagctgcg aaaccaaagg gaccaagccg 120

atgtactact tgcaataagc gggttggcct gactggattc aaatgtcgct gtgggagcct 180

cttctgcgga acacaccgct atgcagacgt acatgactgc tccttcaatt accatgctgc 240

tgcgcaagag gcgatagcta aggnaaaccc ggttgtgaaa acaaganaaa ncttgacaaa 300

aatccgaaaa tcctaantta aactttctcc tgggtttcat caaggtgggc tggtgtttcc 360

cttctcctgt ccngtgtcct gggttcaagt natt 394

<210> 945
<211> 379
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-027-Q1-B1-C10

<400> 945

gagcttttgt tcttcgattc gatttctaat caattagatt gtttttgttt tgtttaacat 60

cagttgcgaa tcgagctgga ttcttgggct cgctttttct ttcaatcaaa agtttcgata 120

ttagtgaagg ataaaattcg ctaaaaaaag agaatttttt ttgttaaaaa aattataaaa 180

gctggctttc tcaaaatttc tccatgtggt cgacgaagaa gacgaagaag acgaagaaga 240

aagagaaagt ctcttaacaa acatgaccgc caccgaagct aagaatcgca aaatcaatgt 300

cggagatgga gatgacgttg ttgatatcga aatccctgac actgctcatc aaattagcag 360

cgattcatgg gttcaggtg 379

<210> 946
<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-027-Q1-B1-C12

<400> 946

gaggttggga ttaccgggga aggaacatat gtcgaagccg ccggtggtga aaattttggc 60

ggaggtggtg gtggttctag tggatcgtcc tccactagag actactatgc aatgttttca 120

ccaagggcaa cattattaga gtcaaattca atgaccaaat tatcatcagc ccaacctttt 180

caaggaggct tccttttaga gaaagtaatg ggcccattat caacgggtca tttagagctc 240

aagacccgaa acccaaaaga taacccgatt gtgactttca actatttcca acatcctgac 300

gacctaaaac gttgtgttcg aggaatccaa aaccatagag agagtccgtg caatctaaaa 360

gcttttcgaa ggtataaagt acg 383

<210> 947
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-C2

<400> 947

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cggcgcgtac tacggaccat caattccacc accgcctaag gctcaccgca gctataactc 120

acctggattc ggatgctgtt gcttcagctg cctcggaagc tgtctacgtt gctgcggttg 180

ctgcatctta agcctgatct gcaacatcct catagctgta gccgtaatcc tcggagtcgc 240

cgctcttatc ctctggntca tcttccgtcc aaacgccgtc aaattctaag tcgccgacgc 300

taatctgaaa ccgattcagc ttcgattcaa acaanaacct ccaattacag tctcgatttc 360

aatttcacaa tccgtaaccc taatcaacga atcngagtct a 401

<210> 948
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-C3

<400> 948

gaggctaaaa gtgcctctgc atcaatggcg atttccaagc tccatctagt actctttctt 60

ctctcagtct ttctcgctct tcatcgtcct gttctttcca acaccggtaa actctctcat 120

tccgaccaag atcttctaga tttttcaatt taggtttctt gatctagttc tagtctgaaa 180

atcgtcaaat cttgtttcat tcaagcctag atcttgatca atggcgatta cgttgttaac 240

taaactatac tttcggtgtt ctgtttttga tatccacaga tggagaaaac cttctattta 300

caagtattca accaatacag agaatcagta aacctcacaa acctaanaaa ggaacaaaaa 360

cgcagaatgt ctagcagacg aagtcgtana ccaat 395

<210> 949
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-C5

<400> 949

attcgtcgtt acgaaaacca gtgtggacac aaagcagagc aaagaagact tttgtaagaa 60

aataggnaca caactaaaga gatgtcgtca accttgagca acgaagagtc aggactcggt 120

gattcaaatc gttcgacgga agtagatggc ggcgacggag gaaacttcac ggcttacgag 180

tctcgattcc agtcgcagcg gtttgactct tccttctcta attttgactc ccaaccggag 240

aaagagtcag acttaccatg cggcgattca tctcctcgac ccgaaactca atctccgccg 300

tcgataaata gtttcgatga tacaaacgat tcgatnctgc cgccacatcg ggcatggnga 360

aagaggaagg ttcgctccta ngagatggcg aag 393

<210> 950
<211> 404
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-C8

<400> 950

acaaaaactt tcagaagaaa cctgaaaaaa cctttcggag aaatctccgg cgaaaaagaa 60

ccctagcgtc gagcggcgaa gatgggcgta attgatttga tcactagggt tgattccatc 120

tgtaaaaagt acgaaaagta tgatatcaat agacagagag acgctaatgt ctccggcgac 180

gatgctttct cccgccttta ctccgccgtc gaatatgctc tcgaaactgt tcttcagaaa 240

acagaggatt tgtcgtctga gacaaacaaa gcgaaagctg tggcgatgaa cgcagagatt 300

cgaagaacta aagctcgatt gcttgaaagg aattcaaaaa cttcagaggc tttctctcaa 360

aaaagncaaa ggactttcaa aggaggagct tgatgctagg aatg 404

<210> 951
<211> 338
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-D11

<400> 951

tccgccgaca gccgccgcgt gtatgtcctt cccatacgga atctgccacg ttgcgtttgt 60

ataatctgcc tgactagggc tttagcagtg tataagagac gagacgagac gcgattcacc 120

ggagagtcaa agaggcaagg aggagaaagc caatggcaca tgccacgttt acgtcggaag 180

ggcagaatat ggagtcgttt cgactcttga gtggccacaa aatcccagcc gttggactcg 240

gcacgtggcg atctgggtct caagccgccc acgccgttgt cactgcaatc gtcgaaggtg 300

gctatangca catagataca gcttgggaat atggtgat 338

<210> 952
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-D6

<400> 952

gagctaaagt cttcgaattg agagatttta gcagcgcaaa gatactctat ccgggtaata 60

agatcgaaga aacnatcaat ttcttaccaa agtcgtgatt cttggatctc gtctttgttt 120

gatggacaca attagggttt ccaaggaggt tcctggatct tcgaaatcga ccgcacagtc 180

gctcacggag tcgacctctc gcacggaaac catcaatggc tcccacgaat tcaagatcag 240

cggctactct ttggtcaaag gcatggggat tggcaaatac gttgcctcgg atactttcat 300

ggtcggtgga tactcctggg catctacttc tacccagatg gaaagatcca naggataatt 360

ccgtcaagtg tcnccctcat agcccttgca antgaaagg 399

<210> 953
<211> 387
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-D7

<400> 953

ngatganaaa nccatgaagg atgcnantga gggantgaac ggacaagatc tcgatggccg 60

tagcatcact gttaacgagg ctcagtcacg aggaagcggt ggcggcggag gccaccgtgg 120

aggtggtggc ggtggatacc gcancggcgg tggtggaggt tactccggtg gaggtggtag 180

ctactgcgtg gcggcggtag acgcnaaggg tggaggagga tacanccggc gnnngcngcg 240

gttactcctc aagaagttgt ggtggcnnga agctaccggt ggtgggaaga cnttaaggga 300

aggangaagg ataccggtgg ttggntaaag gaggaggttt accggnnggn aaccggttgg 360

ttgttgggaa aggatggtta aattccn 387

<210> 954
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-D8

<400> 954

gagaaagatg gagtctcaaa ggtatgactg ctcttgtgac cggtggagcc agtggaatcg 60

gttatgccat agtagaagag ttggctggtt ttggagctag aatccatgta tgtgacatct 120

ctgaagctaa gctcaatcaa agtttaagcg aatgggaaaa gaaaggtttt caagtaagtg 180

gctcagtttg tgatgtagcc tctcgtcccg agagagaaga actgatgcaa accgtctcct 240

cgcagttcga tggcaaactc aacattcttg taagcaatgt gggcgtaatc cgctcaaagc 300

caacaacaga atataccgaa gacgatttcg ctttcatata tcatcaaacg tggaanctgc 360

ttancaattt aancagcttt caatcctctc ctaaaggctc aggctatggg 410

<210> 955
<211> 388
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-E1

<400> 955

tnaaancctt atcctgctat ggcttccact ttcgtctgct ctctaccaaa tcctttcttt 60

gcttttccgg tcaaagcaac tactccttcg acggntaacc atacgcttct cggaagtcga 120

agaggttgtc ttagaatcaa agcgatttcc actaaatggg aaccgacaaa ggttgttcct 180

caggcagaca gagttcttgt tcgtcttgaa gatcttccta ttaaatcctc aggtggagta 240

ttgttgccta aagcagctgt gaagtttgag agatacctaa caggagagat tatatctgtt 300

ggttctgang ttggcaacaa ttggacctgg aaaganggtt tgttctctga tgtgacgctt 360

atgangtcaa tttggaaccg atgctagc 388

<210> 956
<211> 380
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-F1

<400> 956

gtaacaggtg cgcagcttca tgtagagagc cacggattca agaacgtgct cttcttgcgc 60

ctttgtttct ctagagttgt gggagcaaca ctggtaaaga attctgaatg ggatgaagcg 120

gtaggctttg ctccaaaatc aggactcatc tcaacgctaa taagccatca cttcactgca 180

gcacaaaaac caccaccacg acctgcagac gtgaatataa attcggctat atatcctggt 240

ggaccaccag tacccacgca agctccaaaa cttttgaaat ttgtggatac aagtgagatg 300

acaagagggc cgcaagaatc acccgggtat tggggttgta tcgggtgcaa gattatttgg 360

tgggagaaaa gnaaaatccc 380

<210> 957
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-F4

<400> 957

tcttcttctt cttctctacc tttgtttgct ctgttcaatt ttttcctcat aagtttttgc 60

agatgggttt cttctacacg tatcttttta tcaagattcg tccctcttct tcaacatcan 120

caangcgttt tcgacaaaaa gaacaacana gaccaacaag agactttgac caaacnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnngatggt tatgacaagc ttagggcttt tttacaacga tgatcagctt 300

caacaacaat acagtgcaaa anaagtctcg agtttgttcg aagagaaaga agcgaagttt 360

ggaagaaatc aaacaagctt ttgatgtgtt tgacgaaaac 400

<210> 958
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-F8

<400> 958

ttctgaggca tgtaaaggag ttccacagcc aatgaatcct ccaaggttta tgaaaacatc 60

tcaagcaaca acaacaacaa ccaatgttcc tgcactaagt gatgatgctt tgactcgtgt 120

cgccatgtca cttccttctc caaaaactgc gaataaagaa gatggactgt gtgtgatttg 180

tgtggatgca ccatctgaag cagtgtgtgt gccgtgtgga catgtcgccg gatgcatttc 240

ttgcttgaaa gagattgaaa acaagaaaat gggatgtcct gtttgtcgcn ccaacattga 300

tcaggtcatt aagctatatc atgtttgaag catatctcct ctatgggtgg aagatattga 360

aactatcncc tatttttac tttgtcttta anaagataac tacaaanttt ttt 413

<210> 959
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-G1

<400> 959

gggacttgcg tttactgata aagaaagaga tgctcattac ttaactggtc ttcttccccc 60

tgtgattttg agtcaggatg ttcaggagag gaaggtgatg cacaatctcc gtcagtacac 120

tgttcctctg cagcgttaca tggccctgat ggatcttcag gaaaggaacg agaggttgtt 180

ctacaagctt ttgattgata acgttgagga gttgcttcca gttgtgtaca caccaacagt 240

tggtgaggct tgccagaagt atgggagcat tttcaggaag ccacagggtc tctacatcag 300

tttgaacgag aagggcaaga ttcttgaagt tttgaagaac tggccccaga gaggaatcca 360

agttattgtt gttactgatg gtgaaccgga ttcctcggtc tgggaaatct tggntgccaa 420

ggaatggga 429

<210> 960
<211> 535
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-G12

<400> 960

gtgaattttt anggcgccta gaagagaaaa acgtcgcatg cacgcgtacg taagctcgga 60

attcggctcg agaacaaatt cacactctct ccgccgcgca cagactcacc gacaccacca 120

ataatgtctt cttctccggc gattcttccc gtcaccaacc agcaagcagc cactcaatct 180

caacctccaa tcaattctca cgccttccgt actttcctct cacgcctctc gtcctctctc 240

cgcgaaagcc tctctcaacg ccgtccatgg ctagaactcg tagatcggag ctccttcgct 300

agacctgact ctctcaccga ttccttctcc cggatccgta agaatctcgc ttacttcaaa 360

gtcaattact ccgcaattgt ctcgttagtc cttgctttct ccctcctctc gcatccattc 420

tcgcttctcg tcctcctctc tctcttaggc tcctggatgt ttctctacct cttccgatnt 480

tcagatnagc ctttggntct ctttggncgt antttctcaa attgtgagaa attgg 535

<210> 961
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-E2

<400> 961

gtacggaaga gggcgagaca cagatggtgg aaggttcatc agtctacttt ttggttcaaa 60

cttaaccgat gttgttatca ccggtgagaa tgggacaatt gatggacaag gagaaccatg 120

gtgggggaaa ttcaagagag gagaactaaa atacacaaga ccttatttga ttgagattat 180

gcattctgat ggtatccaaa tctccaatct cactttcttg aattctcctt cttggcatat 240

tcacccggtc tacagcagca atatatatat ccaaggtttg acgatattag caccggtcac 300

ggtaccaaac actgacggta tcaacccaga ttcttgtacc aacacganga ttgaggactg 360

ctacattgtc tccggcgacg attgtttccn ccgttaaaaa tg 402

<210> 962
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-G5

<400> 962

caanagatca atanattaca anaatgcagg gagctctgtt tatcanacca actattcttc 60

ttcctcttcc ttcntcagtt tcntcgcnaa aactcangtt ttcntcttcc tcacgcaacc 120

aannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt tctgtttttc cagctgaagc 240

atgcgaagta atcaagtgga tacgcttgtt ctgctgatat ttaccctgaa gtcaagctcg 300

atacaaagcc cgtttcangt cccgtggctt cagaagccgt tgacangaga atacgaagag 360

tatancaagc cccaaagacg gttttccgtn aaagaaggcc tgcgaatgat cttgggangg 420

<210> 963
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-G6

<400> 963

gcaggaggtt tgcctanaag cagccaccct tgaaagagtg cgtaatagct cactgatcga 60

gcgctcttgc gccgaanatg aacggggcta agcgatctgc cgaagctgtg ggatgtcaaa 120

atgcatcggt aggggagcgt tccgccttag ggggaagcaa ccgcgcgagc ggcggtggac 180

gaagcggaag cgagaatgtc ggcttgagta acgcaaacat tggtgagaat ccaatgcccc 240

gaaaacccaa gggttcctcc gcaaggttcg tccacggagg gtgattcang gcctaagatc 300

aggccnaaag gngtattcna tggacancag gtgantattc ctgtactaac cctttgttgg 360

tccccgangg aacggangaa gctangttta acccaaanga ttggttatcg ggttcaaagg 420

acnca 425

<210> 964
<211> 311
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-G8

<400> 964

gattgaaccg gacccgttta ttcaatggat ccagaggata ggtccgagat tgccttcttc 60

gacgttgaga cgactgtacc aaaangaggt caacgtttcg cgattctaga attcgggtca 120

atcctcgttt gcccgaagaa gctaacggag ctccgaagct acacgactct cgtccaacct 180

gcagatttga gtctcanatc ttccttgtcc gtgaggtgca atggtatcaa acgtgacgac 240

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aggattnggg c 311

<210> 965
<211> 419

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-H10

<400> 965

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aagacgagtt caacaagcag tttaacgcag atgaagacga cttcgtgctc cgacagtcaa 120

agaagaaggc cgacatacga gtccgagatg gacgtgcgaa gccaatcgac tacctggcgt 180

tcacccttcg atatatcgat gcagagcgcg acgtgttcga tgacgaagag ggcgatctcg 240

atatcgaggt accctcgccg gcaaagattg tacagggact cggagtggag gaattgaacg 300

aacttgaagg cgacattgct tcgtaccatg tcttggagtc aaacgctcgt aatcgatcct 360

antggaaggc tttgcaatca ntttgcgcga ancagangac gaanctagat tccgcgaaa 419

<210> 966
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-H5

<400> 966

aaatttgctt tgtttttgcc aaattcaatc gatatatcaa agatgaagat gggaggttca 60

aagagaagag tatcgagcaa aggacttgga gctgttctta aagaacaaag agctaagcta 120

tacatcattc gaagatgtgt cgtcatgctt ctttgttggc acgattgatc ctcaatctgt 180

cttcagattt catcctcatc aatctttatg tataaaaggc tttcgtgtgt tggagggaga 240

agagtccgtg atgtttggga gcttaaccgg cctggcggat cgggtttgat tctacgcgag 300

attgtggatg aatcggttaa gaatttgact tgtttttgat taaacctctc caataaccgt 360

taacaagatt ccntggttcc tttgggagca aatatttgta aattcaaatg attttn 416

<210> 967
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-026-Q1-B1-H6

<400> 967

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gccggcggga aaaccatgtc gcacttcgga aggtcaggtc caccggatat cagcgacacc 120

tactcacttc tcgtccttaa catcaccttc cgtacgactg ctgatgatct ctatcctcta 180

ttcgcaaagt atggaaaggt cgttgatgtg tttattccca gagatcgaag gactggtgat 240

tcgcgtggtt ttgcgtttgt tcggtataag tataaagacg angctcacaa agcagtggaa 300

aggcttgatg gaagagttgt tgatggcaga gaaataactg ttcagtttgc gaaatatggg 360

ccaaatgctg aaaaaatttc caaaggaaga gttgtggaac caccgccgaa ntcacgaaga 420

tctagaagcc gtagtccnaa ggcggagtcg taat 454

<210> 968
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-H8

<400> 968

attttttttt tcgccaaata gaacatagcc ctatgagtta atacgatcac tatgtagaga 60

aagatatagg gtgtgacttt ctttaatagg tctataaatc tggctatata aataaatgag 120

atacgcgatc cagtataccc gtttgtgaag taaaaaagaa cctttaactt catgtccgaa 180

tagactaaaa gtggtaaaaa gaaattggaa ctaagtcatc tcgaatcaac ggattcatga 240

taaaatccct ttatttatta aaaattttta gtgggtaaga ggattaaatg gtgtatattc 300

ttttgttaat agcttggagg gattaaaaac atgactattg ctttccaatt ggcagttttt 360

gcattaatta ttacttcatt aatcttactg attagtgtac ccgttggtat ttgctccncc 420

t 421

<210> 969
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-026-Q1-B1-H9

<400> 969

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actcattctt cttcttgttc aagtggttgc tgattctgaa atctcttctt caataactta 120

gctcctaagc accgtgccac agcctccgcc gtagttacac atcctccgaa tggttccttc 180

cttagcacaa gctctgaatc gtagatggtt cctccactca ctgatgcgtc tatttccgta 240

tccaaacaca ctctaaccgc tcctgcttct cttaacacca cctcgctagc tttgaccatc 300

tccttcgcgt gtttccacgt cgcgtcgaat acgattagtc tcagcggcgg gggatttgag 360

atccacgatg gtttaagaag tttaaggant tgaattcnga tatantgacg gcgggaaaag 420

aangagaaga aaggaaa 437

<210> 970
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-A1

<400> 970

gagagaggag cagctaatgg aattgccatg acagcgatgt ctcttttcaa agccataggt 60

ccagcagcag caggaatcat gtatgcaact tcttctacct ccttctttac attaaatatg 120

cttcaacatt ttgttataaa acaaacaaca agaacaacat gaacttgttg gtttatcgaa 180

ttctcagttt tgttttgcgc ttaacaacgg tttgttgaca gtttttcgtg gagcgagaaa 240

cgtcagggtg ctgcttttct ccctggcacc caaatggtat tctttatact gaatgtggtt 300

ttggcacttg gagttgtatt gacattcaaa ccatttctag ctgaaacaca acagtagaaa 360

atgatgaaga ttttgatggn antcaaatta cataatcaga atgt 404

<210> 971
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-027-Q1-B1-A12

<400> 971

aaaacctaaa gcattgcttt tgccttcatg gtatcagagc tcatggaaca tagatccatg 60

gaactctact ctgttccttc tctcaatatt tcaaattgtg tcaccgtcac tcttactgcc 120

aagaactata ttctctggaa atctcagttc gaatcttttc ttgatggtca agggcttctg 180

ggttttgtca caggctcgat tcctgcacca agccaaacca gcgttgtttc agacattgat 240

gggtcaacat cggcttcacc caatcctgag tactacacct gggttcaaga cagattgagt 300

tgtcaaatcc tggctccttg ggtcttccnt aaaagatant cccagtgttg tggtcaactg 360

caacac 366

<210> 972
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-026-Q1-B1-A2

<400> 972

caacaacaac tacaacagct tattgagcag agatggatca tcaatttgga tatggtgttg 60

aagttactgg gttatctcca tctgttactc ataatgatct tatcgatttc ttctctttct 120

ctggtactat ccaagatatt gatattgtca ggtcgggtga gcaagcttgt actgcttatg 180

tgatgtttaa ggattcttat tctcaagaaa ctgctgtttt actcactggc gcaacgatat 240

tggatcagcg tgtttgtata actcgttggg gacaacatca cgaagagttc gatttctgga 300

atgcgacttc gcgaggtttt gaagatgaat cggactcaca acattatgct caacgaagcg 360

agttcaacgc tggagaagca gtgacaaaag ctcaaga 397

<210> 973
<211> 387
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-A5

<400> 973

agaaacttta ggtacatcga ggagatcaag gaagctctcg agagggagtg tcctggtgtt 60

gtctcatgtt ctgacattct cgtcttgtcc gcaagagaag gcatcgaagc agtatgagga 120

ccttatattc ctttgaagac aggaaggaga gatggactta aaancangac ggatatgctc 180

gagtcanatc ttcccgacca caacgagagt atctccgtcg ttcttgaaaa gttcaaatcc 240

atcggtatcg acactcccgg nctccgtcgc cctcctangg tcacacancg tgggaagaan 300

tcactgtgtc aaactggtcc atcnnttgtt cccctgaggt ggacccctcn ntaaancccc 360

gacaagttcc tcacatgcta ggcaaag 387

<210> 974
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-A7

<400> 974

ttctgaactt aatctactat atggtggtag aagtacttcc atcggcacta gtcctcttca 60

ttctccgaaa gctacctcca aagagagtat cagctcaata ccatccgatc cagtagaaac 120

ctttgtcact gaaccatctc acacggtgag tatgatgctg tttaagagaa gagtaaagat 180

taaaaaaaaa attggggcaa aaaatgaaag gtgaagaaga aatcggtgtg gaatctgcgt 240

gagtttttgg aatgcacgtt catataaatg attttacagc ttttagttgt tgtagcccgc 300

cgtgactttt ggtttggtaa tttatgtccg ttaaaattat aaattgctct tctgctactt 360

tgaaaaaatc tgggcagtan tacaagaggg ttaacatttg gtgcgtcaat g 411

<210> 975
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-B5

<400> 975

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agcaacatca accacaccac caattcctca agatcaatct cccaattctc gtctaccaac 120

caaaatcatt ctacccaata agaaacctga gaaatggtcc accggagttg ctcccggaga 180

gtacggtggt cctccgacta ccaccaagct ccgaaagtac tggggaggtg aaaaagaaga 240

tcccattact tccacagact taatctggaa cagagatttt atggatcaaa tgaagaaatt 300

gtttgatgat cctaatgatt cttctctcga cccatctcct tcaaaggaaa agtcttctgg 360

gtttccgagc tttaacaaga gttatgagtc ttgacagtan gatgttgatt taaagttaaa 420

gagcttgca 429

<210> 976
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-B6

<400> 976

gcaattttta gggttcatca aaatttgaac aaaagggacc tgttttgctc aatttttgat 60

agcagaagac gaatctggat ctggggtcac ttcaagattg aattaagagg tttttaagta 120

agttgagatg tcagttaaag caaggagaat ttctggtaga ttagagactg tagtaactnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngcca 360

aagccttttt acaaggaact gtcaacnttc naaaatcccc ctccgaaaaa ncaaaccggt 420

tgtgg 425

<210> 977
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-A12

<400> 977

ggtaacattg atattttcca ggccaagacc attggtgagc gaatgcgtgt tattgatgga 60

aatggaaagc tggttcccca cttgtactgc atcggtgatg ccaatggtaa actgatgctt 120

gctcatgcag ctagtgctca aggaatttct gtggtggagc aagtcacagg tagagatcat 180

gtgcttaatc atcttagcat cccagctgct tgttttactc atcctgaaat aagtatggtg 240

ggattgacag agcctcaagc gagagagaaa gctgagaaag agggattcaa agtaagtatc 300

gccaagacaa gtttcaaggc aaacacaaag gccctaaccg aaaatgaang agaaggactc 360

cctaanatga tatacagacc tgacaatggt gaaatccctg ggagttcaaa naattggatt 420

gcatgcngct gatnttaacc atgaancatc aaaccgaatt gg 462

<210> 978
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-B7

<400> 978

ttggtgaaaa caaggttcag tcttcgatgt tgccattgta tcaagtagat caaactcttg 60

gaagaaacac tgtttagcag gagttgaaga aatgttgtta tactatacga gaaagatgga 120

aaagatagat agatgctctc atctattctt gaagatactt tctactgttt tgatctcaaa 180

tcttaggcat gattcatggt cagatgcttc attctttccc ttcccccatc ccagtgttgt 240

ttctgcattg ctttctccag attgcgaggg tgacagaacc gagagaatct gtgagcggaa 300

gttagacggt aacaacgatg tcaggattgg tttggaaaag atgttgaatg aatggctcan 360

atttggttga antgaataaa tgtttaataa tgtct 395

<210> 979
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-C3

<400> 979

agcttacgga tatgcaatac attgtgtttc acgccacgat ttcatcaagc ggctctcatg 60

cttctcagga gtatttcatc agacacaaag acggttgcac tcttgacaca gaaggagaga 120

aagagagagt tgtcaaatgt ctggaagctg caatccatag acgagtcagc gagggttgga 180

gtttggagct ctgcgcaaag gacagagttg gattactgtc ggaagtgaca aggattctga 240

gagagcacgg gctatcagtg tcgagagctg gtgtgacaac agtaggagaa caagccgtca 300

acgttttcta tgtgaaagat gcttcaggga atccagtgga tgtgaagacg attgaggcgt 360

tacgcggaga gattggacac agtatgatga ttgacttcan gaataaagtt ccgaagcaga 420

aaatgggaaa g 431

<210> 980
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-C9

<400> 980

gaatgatttt gtgcngccct agaagagana anacgtcgca tgcacccgta cgtaagctcg 60

gaattcggct cgagaaccct tgaccgtaca acaatggcga gaggctcttc ccaatcccaa 120

caatcaacct ccaccggttc ttcaaccgcc cggcccggtc tggccgctcc tcgnggttcc 180

gccgccgcta ctgccggcat gcgtcgccgc aggctcggtg gcggtggtgg cgtatcctca 240

ggcggcggat ctggagttgg atcaggatcg agcaacatgc tgagattcta cacagatgat 300

gctccggggt tgaagatctc accgacggtt gttctgatca tgagtctctg tttcatcggc 360

ttcgtcactg ctcttcacgt ctttggaaaa ctctacctcc acaaatccgg atcccaanct 420

tagatccgga tnaggacctg gatcgtttaa tcggtgatcg ctgtttttt ttttttttt 480

taaataagtt tcctgnggtt ttgtt 505

<210> 981
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-D10

<400> 981

gatgtatctg gttcaatcgt tcagaggcaa aggatcgtga aattgtagca aaaaagttaa 60

gggaccatgt ccaaggagct gacagtaatc ctcttctcat atttcccgaa gggacatgtg 120

taaataataa ttacacagtg atgtttaaga agggtgcttt tgaattggac tgcactgttt 180

gtccaattgc aattaaatac aacaagattt ttgttgacgc cttctggaat agcagaaaac 240

aatcatttac tatgcacttg ctgcaactca tgacatcatg ggctgttgta tgtgaagtgt 300

ggtacttgga accacaaacc ataaggcccg gtgaaacagg aattgaattt gcaaanaagg 360

tcaaagacat gatatctctt cgggcgggtc tcaaaaaagn cccctggg 408

<210> 982
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-D11

<400> 982

gaaaacaaga atcttactgg aacagctcga tatgcaagtg ttaacactca tcttggaatt 60

gagcaaagta ggagggacga tctggaatct cttggctacg tgcttatgta ttttcttcga 120

ggaagtcttc cttggcaagg ccttcgtgcg ggtaccaaaa aacagaagta tgacaagatc 180

agcgaaaaga aaaggcttac acctgtagag gttctctgta aatcctttcc acctgagttc 240

acatcatact tcctctatgt acgatcattg cggtttgaag acaaaccaga ttatccatac 300

ctaaagaggc ttttcaggga tctctttatt cgagaaggtt atcagtttga ctatgtattt 360

gattgggaca atcttgaagt atccacaatt taattcgggc tccanctcta actccaagcc 420

aagattaanc ctgagaacag ctatnaatc 449

<210> 983
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-D8

<400> 983

gaggccaact ctcagctact gattatgttc gaataaccag cactgagtgt gctagaattt 60

tcaacatata tccacggaaa ggagctatcc ttgctggctc ggatgcagat attatcatat 120

tgaatccaaa ctcaagctac gagattagct caaagtctca tcattcaaga tcagacacaa 180

acgtctacga gggcagaaga ggaaagggaa aagttgaagt gacaatagca ggaggacgaa 240

ttgtgtggga aaacgaggaa cttaaagttg ttccaagaag tggcaagtat atagagatgc 300

ctcctttcag ttacctttc gatggtattg agaaatcaga tgctaattat ctatcttctc 360

ttcgagctcc agttaagcgt gtcagaactg aagctacgta aagtgcangt atctatctgc 420

atatcgt 427

<210> 984
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-E10

<400> 984

taaacacaat attctttctt ccaaattttc tcatttctca tgggcatatc tcaagtacac 60

tattgcaatg gtgaccagaa cttagaagca aaccttctag atcatgagga aactgaatca 120

ttttcagtac ctcaaacgaa gaactgtaag aggtggctcc gtgtctccat atacgcaatc 180

tttgtcatct tctgccaacc acttgctaca gttctgggta gactgtacta tgaaaatgga 240

gggaaaagca catatgtggt aacacttctt caactcattg gcttccctgt actgattctc 300

ttccgcttct tttctcgaat caggcaaccc aaatcaacag atacaaattt cagtcagtcc 360

ccttccttca acaaccttgc atcggtttac ttgtgcactg gactgctaat gtctgcttaa 420

gcctaattgt ccgcaatttg ggtgcntt 448

<210> 985
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-E11

<400> 985

caggttttca tagaaattac atcctctgtg cttcacgcgc cgccacttcc acgacgcgcc 60

tccactcttt gtcctccctc agaaactttc cctcttcctc tctcaggatt cgtcactgtc 120

cttctcccat ctcttccaat ttcatcgtta gtgaagtttc ccgaaaccga cgatgcgacg 180

ccgtttcttc cagcaccacc gatgtgactg aattagccga aattgattgg gacaagattg 240

attttgggct taaaccaacg gattacatgt acgccatgaa atgtagccgt gatggtgaat 300

tctctcaagg tcaattgcaa ccttttggta acattgacat taacccagca nctggtgttc 360

tcaactatgg acaaggnttg tttgaaagng naaaaactta aagaaaacaa gatgggaaaa 420

tccaaacntt cgttctg 437

<210> 986
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-E12

<400> 986

cctcgatttt ggacaggatg cagcacaaga aaagttatcg gaatcactat acaactcagc 60

tgcaaactct acaggggaag gaatagttcc tgacccttgt attcctaaag ggtatatcct 120

tgaaacaaat ttacaaaagg acttacctgg attcttggct gataaaggca aatttacagc 180

caccttcaa gctgctggta atttctcaga gtgtcgatct gctgcatttg ccatgttgca 240

ggaagaaaaa gggaaatgta cttataagcg ttgttctatt ggatcaatat tcacacctaa 300

tcttcaagga agtttttgg ctacagagaa tttcttccac acatccaagt tctttgggtt 360

gggagaaaaa gagtggctgt ctgaaatgat tttggccgga aagagatctg tggagaanaa 420

tggtcaaaat 430

<210> 987
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-F5

<400> 987

acacttatcg tttcgtctct tctctgatcc attgttgaag atgtcnaaga gaaaaactaa 60

ggagccaaag gttgagactg tgactcttgg gncttctgtt cgtgaaggag agcaagtttt 120

tggtgttgtt cacatctttg catctttcaa tgacactttc attcatgtga ctgatctctc 180

cggtagagaa actctcgtcc gcatcaccgg tggcatgaag gtgaaggntg accgtgatga 240

agtcctctcc ttaagctgct atgcttgcaa ctcaagatgt tgctcaaaga tgcaanggag 300

cttgggatca atggcatggc acgttaaagc tccgtgccta ctgggaggaa acaanaacca 360

angactccca aggttcctgg tggctcaant ccngctccta agaacccctt gctccgttcc 420

tggcatgaaa gaattgggnc 440

<210> 988
<211> 370
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-G1

<400> 988

catacataga gacatcaaaa ccacaaacat acttctcgat gagaacttcg tcgctaaagt 60

atctgacttt ggtttatcaa gagttggtcc tactagtgct tctcaaacgc atgtctccac 120

cgtcgttaaa ggaacgtttg gttacttgga tcccgagtac tatcgccgtc aaatcttgac 180

cgaaaaatcc gacgtgtact cttttggagt tgttctgttg gaggttttgt gctgtanacc 240

cgatcagaat gcaaaagtgt tccaccggaa caagcagatt tgattcgatg ggtgaagtca 300

aatttcaata aaagaaccgt tgatcagatn attgactcaa gatttaaccg ctgaatatca 360

cttcgacctc 370

<210> 989
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-G10

<400> 989

ctccgtcgat ggnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngaccac gaagctaaac 120

cctcaatctt ccccactcat tttcactggt acacttcctc tcttgcctca ctcacctctt 180

ctcctccctc cantatccac acatacgaca ccgttttcca tggcttctcc gctagactca 240

cttcacaaga cgctagtcaa ctcttagacc atcctcatgt catctctgtt atcccggaac 300

aagtccgtca cttgcacacc actcgttccc ctgagtttct tggtcttagg tccaccgaca 360

aagcgggtct actcgaagag tctgatttcg ggtcggatct aattatcnga agttatcga 419

<210> 990
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-F4

<400> 990

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atagttcttg gtgattgtga caaggaggtc ttacnggtct ccagcttccg ttaggcagga 120

ggacaagtgg nggctgcctt gccctaaggt tccgcctaac ggtttgtcat gaagaggcca 180

ggaagaaact gcagcagtgt cgggactttg ctaaccagat tctcaaggct gcattggcaa 240

ttaacagtgg cgtgcttgcc gaaatggnga ttcccgaccc ttacttggag actttgccca 300

agnagcggga agggaatgtc ttggganaaa tnatcnacca ntacttaact gcaaaacaag 360

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cttaaaatcg ccaaacggg 439

<210> 991
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-G11

<400> 991

nacgtcgcat gcacgcgtac gtaagctcgg cttcaattcg atatcgattc actagaccag 60

aatctggcta agaacttggc cggagacgtg atcggaaccc gtacggaagc tgccgacgcc 120

aaatcgacgc cgtttcagcc gtacagtgag gtgttcggaa tccagagatt cagggaatgc 180

gaactcatcc acggacggtg ggcgatgctc gctactctcg gcgctctctc cgtcgaatgg 240

cttaccggcg ttacatggca agacgctggc aaggtggagc ttgtagatgg atcgtcctac 300

ttggggcagc cattaccttt ctcgatctcg acattgatat ggatcgaggt gttagtgatc 360

ggctacatcg agttccagcg caacgccgag cttgattcgg agaagcgttt ataccccgga 420

ggcaagttct ttgacccgct aggtttagcg gctgacccgg agaagactgc tca 473

<210> 992
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-G12

<400> 992

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aacaaagggt tactaaatcc tcagattaaa gctcatccat ggcatangat tttccacaag 120

agaatgcctc cagaagctgt tgatttggtc tcaaggcttc ttcaatactc tcccaatctc 180

cgttgtgctg ctcttgattc attggtccac ccattctttg acgagctaag agatccgaat 240

gcgcgattac ccaacggacg tttccttcca ccgctcttta actttaagcc tcatgaactt 300

aaaggtgtgc ctgtggagat ggtggcgaag ttagttccag aacatgcgag gaagcaatgt 360

ccgtggctca gtttgtgatt tgttctcacc tgcaaacacg aaaactaaga gcanagcagt 420

<210> 993
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-G2

<400> 993

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agtgtatcct tcacaaaacc aaaacacact ctccattttc ttcagacang tctttctcct 120

ttcttctctc ttctctgtct catcacaaac cagaaatggg aggagtgtcc ttcctctcca 180

ctgttccttc cttcaccaac acaaccaatc atcaacatct cactacactc tcttcttctt 240

ctcatcgctc tgctgttata cgatgttcca agattgaacc tcaagtttcc ggtgaaagtt 300

tagctttcca ccgccgtgat gttctcaaac tcgccggcac tgcagtcgga atgggaatta 360

atangnaacg ggttcattaa caatgtgggt gatgcaaaan gctgcgactt gaacaacgtt 420

gacaacgatt cgagnttca 439

<210> 994
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-G3

<400> 994

gttgatgctg ttatggccat tgggaatgac gacaggctaa atctgattgg gatcaagaag 60

gttcctggtg gcaatatgcg agactctttc ctcgttgatg gtgtagcttt caaaaaaaca 120

ttctcgtatg ctggttttga gcaacagcca aagaaatttc ttaaccccaa aattctcttg 180

cttaacatcg aattggagtt gaaatctgag aaggaaaacg ctgaaattag gctgtcagat 240

ccatcacagt accagtcaat agttgatgca gaatggaata tcatttatga caaactaaga 300

caaatgtgtt gagagtggag caaaagttgt tctttctcga ttggctattg ggtgatctaa 360

ctactcanta ntttgcccga tcgtgatatt ttcctgtgcc tggtccgtgt tgctgaggaa 420

gattcttaan cgttgttggc tggctgc 447

<210> 995
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-G6

<400> 995

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aacaaggaga cagctggaga gagagctgat gctggaagac ataatgcatc ttgaggactt 120

accctcctac gctcttctca atcaatagcc cttatgatga tattaaatag taagaagagt 180

ttctaacctc aggataacac aaggttgctc tactctctct ctctcttcac ttttcatctt 240

caacgctttc ggttctacct cttcgttgac cttttcttgt gtttggtggt tctaagaaac 300

aacttcaaca ccgagttgtt acttgttata ttaaaacaag aaaaagagtg tgagananac 360

gggggagaag gttgggataa atcccaattt tggttgcaag gatttgnaac ctaaatggaa 420

<210> 996
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-G7

<400> 996

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gaagagagag gacaagtaga gcaatggtta gacgttgagg ctacaagtta ccatccacca 120

ctattggctt taacgctcaa cattgtcttt gcaccactta tgggtttccc tgctgatgag 180

aaagttatta aggagagtga agagaagctt gcagaagtgc ttgatgtcta tgaagctcag 240

ctttctaaga acgaatactt ggctggtgat tttgtgagtc tagctgattt ggctcanctt 300

cctttcaccg agtatccttg ttggtcctat tgggaaaggc catttgatta aaagatanga 360

agcatgttag cgcttggtgg gaataa 386

<210> 997
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-H10

<400> 997

acttgcgcca cactctcacc gcaatggccg cctcgacaat ggctctctcc tctcctgctt 60

tgaccggaaa ggccgttaag ctatccccgg cggcctccga agtatttgga accggccgaa 120

tcaccatgcg caaagcctcc aagcccaccg gtcatccggn aagcccatgg gtacgggttc 180

cgaaccgaan caaagttact tnggtccaat tctccgggtg nagcctccga anctacctca 240

cnggaaattt ccccggggat nangggngga aaantgccgg tctatccgcn gatcccaana 300

ccttcgcaag gaaccgtgaa gcnaaaattt atccaaanca natgggcaan gcccggaccc 360

cnanggttgc ntttnccnta accaatgggc aagnaacggg tttgaattcg gaaaaccggt 420

tt 422

<210> 998
<211> 444

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-H2

<400> 998

gaaagaataa tgatgttttc ggtgacggtt gcgatccttg tttgtcttat tggctacatt 60

taccgatcat ttaagcctcc accaccgcga atctgcggcc atcctaangg tcctccggtt 120

acttctccga gaatcaagct cagtgatgga agatatcttg cttatagaga atctggggtt 180

gatagataca atgcnaacta caagatcatt gtcgttcatg gcttcaacag ctccaaagac 240

actgaatttc ccatccctaa ggatgtaatt gaggagcttg ggatatactt tgtgttctac 300

gatagagcag gatatggaga aagtgatcca cacccatcac gcactgttaa gagtgaagca 360

tacgacattc aagaactcgc cngataaact caagatnggn caaaagttca agttcctngg 420

aaancactaa gtgcctactc cgtt 444

<210> 999
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-H4

<400> 999

gtttgcttta cccttatttg gccattcctg tcttccactt tgtcatcttt tccctttctg 60

atgggatccg ccgccgaact cacggagccc accaccggga ccgagaagct tcaccaagcc 120

aatagaagtt gaagaagatg acgaacaaat tgttgatttg gagaggaaaa cattccgtca 180

tggaaaggga cacgatacta gtgtggacag tagtacaatc accaacacca agctcgtcgt 240

cgtcttctaa cttttccggt gatggtggaa cggaagagac ccccgatttc cacagcaacg 300

gcgatggaga acataccgga tttagtaaaa tttggangtc ccnganctag aaaactgaaa 360

atcgtatttc accaagnagc atgacnacgg ggaanaaatt gcatcgtcct ccntcgacgg 420

gagaacaagg ttctgantca actggt 446

<210> 1000
<211> 424

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-A10

<400> 1000

ctgacgatga aaaagacgaa gaagatgagg ctgatgatga agatgaggat gttgactcga 60

tctttaatcg aagacgagtc aacggaggtt tccgcgttan nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn natagtggta 180

gttttggaga tttgttctca tggcctgatc ttggtgggat tggttcgagt ggagtcgtga 240

agctttggga tcatttagat atcgatggcg atgatcatga gaatgttgtg gcaacgtttc 300

tcaagaacta taactcaacc tcgtcaccgt ttttttgggc ggcgganaaa aaaggtgttg 360

acgcccttaa agtgaaggcg tgtgattcac gcncccgttt tcggatgccg gntttgctcc 420

ccga 424

<210> 1001
<211> 522
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-026-Q1-B1-A11

<400> 1001

aagaatgatt gttgtgccgc ctagaagaga aaaacgtcgc atgcacgcgt acgtaagctc 60

ggaattcggc tcgagagcaa atagaggatt cggatttttg tgtatcttgc attccaagat 120

tggatcatca ttaccattct caaccgcagg tgaaactctt tggtatggta gttgaagctt 180

atgtgctctg tatccaagct caagttgata tgncattagg aagatttgag aatgcggttg 240

tcaaggcaga gagagctgcg atgcttgatc aaaccaatcc tgaggttgta tcagttttaa 300

acaatgtgaa gatggttgtg cgggcacgta ctcgtggtaa tgagctattt agttcgggga 360

gattctcgga agcgtgtgta gcttatggag acggtctcaa gcaagatgac tccaattcgg 420

ttttgtactg caacagagca ncgtgttggt ataagctcgg tttgtgggaa aaatctgttg 480

aagattgtaa ccatgcgctc aaaaaccaac ctanttacat ca 522

<210> 1002
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-A5

<400> 1002

gagaaaaatt ctttgctttg caacaaaggc agacagacaa aaggctaatt cggagctctc 60

ctccacatct tcttccaaaa cacaaacaaa cccccaaatt tccagaaaaa tcagatcatt 120

ctttcatcaa tctcgtcttc tttaatctta ggtgagaatt catcagctca aaaacgcagc 180

acccgatcgt tttacgactc aaatcagaga agctgattct tttccaatca ttccaatttc 240

catttcttcc ttgggaggtt ttacaccaaa ttagccgtcg aaaggggtgc ttctttgatc 300

taatttcgat ggcgggatta gagaaaaacg ctgatttctc agggaagacg acgaaatcgg 360

gtacaacgac gtcgttcttc aacaaggtcc cntacaantc acgggaagaa cagttggtgg 420

gattccnggg cccc 434

<210> 1003
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-B1

<400> 1003

aaggctgatc ccaacatgac gattaagtat cctacgggga ctcctactta tgttgctcct 60

gtggatgttt attcaaccgc gaggtctatg ggtccaanag ctcagatcaa tctcaactac 120

aatcttactt ggattttcag cattgactct ggtttcactt accttgttag acttcatttc 180

tgtgaggttt cttcgaatat cactaagatc aaccaacggg tgtttacaat ctacctcaac 240

aatcaaactg ctgagcctga anctgatgtg attgcttgga ctanttcaaa cggggttccg 300

tttcacaagg attacgtggt gaatcctcca nagggaaatg gacancaaga tttgtggctt 360

gctcctcatc ctaaaccaag ttaacaagcc cggagtanta atgattcccc ctctaaaggn 420

gtg 423

<210> 1004
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-B10

<400> 1004

caacaaaatc aaaatcaaga aaacaaaaaa gaaaaactct caagaaacaa tggatgcttc 60

attgtctcca ttcgatcacc aaaaaggcaa aacanagagc caaagaaaag cttcattacc 120

tcactaatca ctctccgttc aaacaacatc aaagaagaca catacttcgt ctcagaactc 180

aaacccacgg agcaaaaatc acttcangaa ctcaaagaaa agctctcagc ntcatcctcc 240

aaagcttctt caatgtgggg agtctcactc ctcggtggag acgacaaagc tgacgtaatc 300

ctcctcaagt tcctcagagc aagagatttc aaagtagcag actctttgag aatgcttgag 360

aagtgtttgg agtggagaga agagttcaaa gcagagaaat tgacagaaga agatntggg 419

<210> 1005
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-H4

<400> 1005

gaaanccatt caaaaaaaaa ncnttcctcc ttgagaaccc ccaacttcct cctcctcctc 60

cgcaaaattt acgaanggnt tcctcctaat cctggctcct gcttgcttgg gctgggggac 120

aagtgctgca tatcaagagg gacctctctc taatggagat gatgttgtca ttgtcgcggc 180

acataggact ccactatgca agtccaaacg tggcaatttc aaggatacat atcccgatga 240

tttgctcgca cctgttttga gggcattgat agaagaagac gaatctaaac ccaagtgaag 300

taagtgacat tgttgtgggt actgttttgg nacctggatt tcaaanagcc aattaatgca 360

aggatgggtg cnttccaagg cnggtttccc tnaaaccntg ggtggtcaaa actg 414

<210> 1006
<211> 356
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-B11

<400> 1006

aaaaaaaaaa aaaaaacaca ttgtcatatc tctggtccca tatgtgatat gtcaccgtcc 60

ttctccatcg ccaccaccgt ctcaccggct tctctagcng ggactctggc ctcgaactca 120

aagaatgttt tgtgtagttt acattcaaag aacaatgata ttaccaagac aaataggaat 180

ctgaagttta gagcttgttc tgtttctgga gggtataaca acaatacatc tgtggacaat 240

gtacctttc ctccgtgatt acgtcgagct cattaatcan gccaaagaan cagtggaaat 300

ggctttgaag gatganaaac agttaatggg aaattgagtt cccaacatct gggccn 356

<210> 1007
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-B7

<400> 1007

aaatggttga gagattcggg ttcagcaaaa agattggaca agttgcagtt ggtggagcag 60

gaggaaaccc tttcttgggt caaagtatgt catngcagaa ggattactcg atggcaacag 120

cggatgtggt tgatgcggaa gtgagagagc tcgttgagaa ngcgtacgtg agagcgaaag 180

anatcataac aacacaaatt gatatcctac acaagcttgc acagctcctt attgagaaag 240

aaactgtgga tggagaagag ttcatgagtc ttttcattga cggacaagcc gagttatatg 300

tttcttaaaa tcaactaatt tggcttgnat aataccaatt agcntcgatn taaacatact 360

ggtangttan tatacattga catgttcaag agacntttcc tttttcctaa aaaanaaaaa 420

<210> 1008
<211> 509
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-C10

<400> 1008

gggntggagc acgctttttc agccgccgga gagacaaaca tgcatgcctg caggtcgact 60

ctagaggatc ccctcgggga attccaattc cacattttca agaaataagg aggcaaaaat 120

gttcatatat gaattggaat tatttgtttt cttattaggc ctatcctgaa gccaaaggaa 180

atgagatcgg aattcctcgg ggaattccaa ttccacattt tcaagaaata aggaggcaaa 240

aatgttcata tatgaattgg aattatttgt tttcttatta ggcctatcct gaagccaaag 300

gaaatgagat cggaattcct cggggaattc caattccaca ttttcaagaa ataaggaggc 360

aaaaatgttc atatatgaat tggaattatt tgttttctta ttaggcctat cctgaagcca 420

aaggaaatga gatnggaatt cctccggggg taccganctc gaattcccta aaannngagtc 480

gtantaaatt cgtaaacatg tcanaacct 509

<210> 1009
<211> 155
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-C12

<400> 1009

agagaaggta tcgataatgg tggtgtgaag tgggtcacta aggtgagtcg cccagttgtt 60

gagcggtcct ttaccggtgt catgtaatga tgtaacgtcg ttatttttaaa gaaaatttgg 120

caccttttgt nnnnnnnnnn nnnnnnnnnn nnnnn 155

<210> 1010
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-C8

<400> 1010

tcttatctct ctcaaatctt ctagagagag aagggcttag tttttcttcc gccatccggt 60

gaatccggca aagccatctg gntgttaaan cagcttcagt ccaacagcct ccggctatta 120

tagaggaggt tggttggctt ttcactggcg gtgttggctc cctcagcaac gtcggccagt 180

tttctctccg gcaacgatgg ctccgtagca ccgtttggct ggctcctctt gtatgcggca 240

tgttttcggc tttctatgcg atggngtccg cttttgtctc tggncattcc accgtcancg 300

ttccgggtgg ttttgggcna nttatgtacc gggtgttana tccngttaat ntgtttccgg 360

tttaactttt aataanttcc aatggaaang tgttgggtga a 401

<210> 1011
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-D1

<400> 1011

aggagatgtt actcaaattt ccaagacaga atcaggctgt tctcccaaca atctctgttc 60

ctattcgttt aagtacggtg atggaagtgg cacttctggt tactacatct cagatttcat 120

gtcctttgat actgttatta ccagtacctt ggctataaat tcctctgctc cctttgtttt 180

tgggtgtagc aatttacaat ctggagattt acagaggcct agaagagcag tagatggcat 240

ctttgggtta ggacaaggga gtttatcaag taatttctca gcttgctgtg caaggactcg 300

cgccacgaag tattctcgca ttgtctgaag ggagataaaa gcggtggagg tataatggtt 360

ctaggtcaaa tcaagaaggc agataccgtc tatactcctc ntgttccatc acagcacatt 420

ataatgtgaa cctg 434

<210> 1012
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-D12

<400> 1012

agcgaagagc caatatcatc ccaaccttgt aaatgaagat gaaactgtga caagatcaga 60

tcgtgagatt ttcaattcct tgctctgtaa agtctcttct tcgaaccttc aagatcaaaa 120

atcagctgcc aaggagctaa gacttctgac caggaaaggc actgagttcc gagctctttt 180

tggcgaatct ccggatgaga tcaccaggtt ggtgaatccc ttgttacacg ggtcaaaccc 240

agatgagaag cttcaagaag atgtggttac aacattgttg aacatatcaa tacatgatga 300

cagcaacaag aagctcgtct gcgaaaatcc taatgtgatt cctctcctta tcgatgcatt 360

gaggcgtgga acagtcgcca cgagaagcaa tgcanctgca gcgatnttca tccgtcagct 420

ctcgaatcaa 430

<210> 1013
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-D3

<400> 1013

agttctataa cctcaggtgt cgccagagaa cggggtatgc cgacgaaatg tgtgtgtggc 60

ttagaggtca cgatgttcgt ctcaaaaacg cangagaacc catgacgacc gttcttccgg 120

tgtattagca aaaggaatgc taattcgtgg tcaaccaaaa gggatgatca tgtgttcaaa 180

tgggtcgaag atgctgtgtt tgaagaagta gaagatgctt tgccaagatt agccatcatt 240

gcaaatgaga taagcaaagc taaatctgag gcaaatgagt taaaggctat gattcaagaa 300

atgaagagaa gaagcaatgg gtcaacgaca tgaagacccc gaaagaaact gggtgtggct 360

ttgaaaatgt gtattgtgtt ggatgtttgg tatcaccatt gtgaatttcc tcntg 415

<210> 1014
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-E10

<400> 1014

tttcagcttc tggttcattt cgtaatgaca gtactccaaa agcagcacag agaaattctg 60

aagattctgg tgttacggtt gatggatcnc catcngcaaa ggaaatgacg atcgttgttc 120

ctgattcctc gaatatctat tcggcttttg gagaggctga gtcaaagtct gtggagacac 180

tctcaccgtt tcagcagaaa gatggtcaaa agggactctt tgttgatcgt ggtgttggct 240

cccctaggct agtgaagtct cttagtgcaa ggctcttttt tgattgatac caagcaaatc 300

aagaattcaa tgccagccgc tgcaggagct gttgccgcag caacggtagc tgatcaaatg 360

cttggaccga aagaagatag acatctagca antgtcctgg ttggcttgcc tgctcn 416

<210> 1015
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-E11

<400> 1015

gagaaaaaag attcttcaaa agagcaaaaa aatcaatgga gagagcaaag tcgaggaagc 60

ctcatatcat gatgatacca tacccacttc aaggtcacgt tatccctttt gtccacttag 120

ccatcaaact tgcttctcat ggctnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccggtgacat cttctccgcc gctcgcagct 240

ccggccagca cgacatacgt tacaccaccg tgagcgacgg cttccccttta gactttgacc 300

ggtcactgaa ccatgaccag tttttcgaag gcattctcca cgtcttctct gcccacgtgg 360

atgatctcat cgccaaactc tcccgccgtg atgatcctcc ccgtgacttg cttgatcgcc 420

gacacgtttt aagtttg 437

<210> 1016
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-F2

<400> 1016

aagaacaaag aaaccatggn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn natggatcca tgaacgangg aggaggacat 120

caccacatga agatgatgat gcacatgacc ttcttttggg gcaagaacac ggaggttctc 180

ttctccggtt ggcccggaac aagctccggc atgtatgctc tttgtcttat ctttgtcttc 240

tttctcgccg tcctcaccga atggcttgct cattcctctc tcctccgtgg ctccaccgga 300

gattcggcta atcgtgccgc cgggttaatc caaaccgccg ttgtataccc tccgtatccg 360

gctcgcctat ctagtcatgc tcgccgtcat gtcgtttaac gccggggtgt ttctcgtcgn 420

tctggccggg tcatgcccgt tng 443

<210> 1017
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-025-Q1-B1-F3

<400> 1017

ctgaaggtta taattctcgg agacagtggg gttgggaaga cgtccttgat gaatcagttt 60

gtgantcgaa aggtcagtaa tcagtataaa gctaccattg gagctgattt cttgaccaaa 120

gaggtccaaa ttgatgacag aatcttcact ttgcagattt gggatactgc agggcaagag 180

aggttccaaa gtttgggtgt tgctttctac cgaggagcgg actgttgtgt tcttgtgaat 240

gatgtcaatg ttatgaaatc ctttgaaaat cttaacaact ggaggggaag agttcctgat 300

ccaggctaag tccttcaaat tcctgaaaac ttccccttcn gntgtcttgg gggaacaaga 360

cagatnttga cggtggaaaa aatcaattgg ttactgagaa gaaaa 405

<210> 1018
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-D8

<400> 1018

tgcttgagat attttgtttt tacctccgag aaacggattt agattcgtaa tcgtgagttt 60

tttggtgtaa tggagatcgc tactgtcgta aaggctaatg gcggttgtga agcggatcga 120

cgacggcttc gccgattgag atgctctgtt aaggattacg attggggcaa aattggatcg 180

gattcactcg tttacagggt ttatgcggcg aattcagatt acgagatcga tcctacacga 240

ccttacgccg agctatggat ggggactcac gagtctggtc cgagttactt ggaggatgct 300

gatggatcca atggcgtgac ccttaaatcc tggatnaccg aaaaccctaa atctctggaa 360

ataaggtttt gggaanaaat ggggttgcca ttccccccctt 400

<210> 1019

<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-D9

<400> 1019

tttcgnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnntt ggtgatgtca gcttcccgat ggacgttgat ggatctacca tcgtacctgt 120

cgtcatcgtg ggcattccgg tggccggagg tgaatctttc atccctgagc tctggttgga 180

acatgagatt gttgtccttg tcgggtgatc tctccatagt tgatgatctt ttgtggagtt 240

ttgtctcaat cattgaatct ttagctatca ctgctacggt ctgttgcttc ttcttgtttt 300

gtggttgtac cctctaattc ccttttttca ttatttaatt ttccgaattt taatgccaac 360

tgaaatgtgt gtaaaagaaa aataatcaat taaattcaag actttttan caa 413

<210> 1020
<211> 525
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-E1

<400> 1020

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ggaattcggc tcgaggttcg gatcgcggcg acgtgggtgg ttcgccgccc gcgacgtcgc 120

gagaagtcca ctaaaccttа tcatttagag aatggagaag acaaaatgca attcaacttg 180

aggagaagga gaagagagaa aaggaattgt tgaagcaaat tattgaggaa gctgatcaat 240

acaaagaaga gtttcataag aagattgaag taacttgtga aaacaacaaa gcagctaaca 300

gagagaagga aaagctgtat ctggagaacc aagagaagtt ctacgcggaa tccagcaaag 360

aattactgga aggcaatagc agagctagtt cctaaagaag ttccaacaat agagaaaagg 420

agaagaaaaa aagagcaaca agattctaaa gaagccaaca atctcctgtg aatcaaggnc 480

caaaagcccc ggtaagccaa accgattcta acaangaatt gagac 525

<210> 1021

<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-E11

<400> 1021

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tcttcacttt tactctcaaa gctttcatct ttcattcaac tacttaagct ccaagtatgg 120

caggatccgc accggaagga acacaatttg atacgcgtca gtttgaccag aggctgaatg 180

aagttctcga tggacaggat gagttcttca cctcatatga tgaggtccat gagagctttg 240

atgccatggg tttgcaagag aatcttctta ggggtatcta tgcttacggt ttcgaaaagc 300

cttctgctat tcaagcaaag aggaattgta ccctttgca anggtcctga tgtgattcaa 360

caagcacagt ctgggtactg gaaaaaccgc cactttctgc tcctggtgtc ntgcaa 416

<210> 1022
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-D7

<400> 1022

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gatctgggaa tccaccggcg tcgaaatcag cgattgaatc tttacctaga gtcgaaatct 120

cagattgtca tacgaaagca gaagctaatt gcgccgtgtg tacggaggtt ttcgaagccg 180

gaatcgaagg tcgtgagatg ccgtgtaaac acatatttca cggtgattgt attgttccat 240

ggctttcgat tcggaattcg tgtcctgtgt gtagatttga gttaccttca gatncaatcc 300

aacggagtaa tgaagaanaa catgccgttg ggatgaccaa tttggagaat acctggtggg 360

tggtttcccc tgttgggaag tttaaacgcc ggaagttaag aagaaaggtg anaaggatat 420

tgccggtgg 429

<210> 1023
<211> 441
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-E6

<400> 1023

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tacattgtga cgatgacaag tactggagct attcttttga ttgggtttca attatcaggt 120

ggagatagtt cgatgaactc attggtttgg tatagttggc ttggtggaat tatcattgga 180

accatgactg gtgctaacat ggttttggaa gatcattatc gagccggtcc acggaatgtt 240

gttataaccg gaagcactag gggactaggg aaagctcttg ctagagagtt tcttctctct 300

ggagacagag tcattgtcac atctcgcagt tccgaatctg ttgatatgac tggccaanga 360

gctagaagca aaatctcaaa gagattatga attaacgcta gccaantcag cctanaaagg 420

aaacctgant gatgctaagg t 441

<210> 1024
<211> 531
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-F1

<400> 1024

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attncggtcc aaggntatat naanaaggtt tgtgaaaaca anggatccaa aacctccccc 120

aaggacctcc gccctaatca agagaaggga ggttcaaaaa gaaaaagagg aaaaaatgga 180

ctatatgtat gggaccaagg gagacaccat ctgtttgtac caaggaccag tgaacatacc 240

ggaaccggta atccgggcga tgaaccggaa caacgaggat taccggtcac caagccattc 300

cggcgcttac gaaaacattg ttggaggatg ttaagaagat attcaagacc acatcaggga 360

caccttttct gtttcccacg accgggactg gtgcttggga aaatgccttt gaccaaacac 420

gttatctcct ggagacanga ttgtttccct ttcctgattg gacaanttta ccntgcccct 480

gggattgacc aagcaanaag aaggcttaaa ttcaatgttt gatgttgggt t 531

<210> 1025

<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-F10

<400> 1025

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngg taggtgtaag 60

aaatattaaa actcaacttt ggtttatgga ctaaattttt tttgttcgat agttggtata 120

taatgaactc agcatacagc attcctagtt ctttgtacat tttttatctt ataaaccata 180

gtctttttgg tggtaacaca tgtatagagt aaggaaattg tctagggcga cggagaaatt 240

gagcaagaca atgttgaatg gtgtgggagt ggtgaagtgg ctcggtgatg ggtccagttg 300

taaagtcgaa gccagggaaa gctttttttct caatggttcc aggggaagtt cnantggctt 360

cacttgaagc tcttaataaa ntact 385

<210> 1026
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-F3

<400> 1026

agtttttttt tttcatgaaa atccactcaa atttctaaaa tatgaaatga gtccaaacgt 60

atagtatata atgatacaac atgcaaaatc acttgaaagg aaaatgggaa aacaaaaaca 120

cgaaaagcac atcaaagtag gaaaagtttc ggatttaggt ggtaagctcc atgatggcag 180

agactatatc tccattagcg agcttgagcg ccttaactgc ccttggctta gacactcctg 240

cttgggtcat cacaagctcg atgtcctttg gctctactcc ctcctcgtct acctcttcat 300

catcatcatc ttgaacagca agctgcagtt gcaagcactc gatgtttctc cctgtgaaat 360

cacgttgcct gaaggttggg aacccttgaa ctggccctgc gggnttgact cctgcaactg 420

gcaaactcna aatcctccaa accttgggcc tcaacn 456

<210> 1027
<211> 428
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-F6

<400> 1027

ttgtgcgctt gggagtccct gattattaaa taaaccaagg attttaccat gactgcaatt 60

ttagagagac gcgaaagcga aagcctatgg ggtcgcttct gtaactggat aactagcact 120

gaaaaccgtc tttacattgg atggtttggt gttttgatga tccctacctt attgaccgca 180

acttctgttt ttattatcgc attcattgct gctcctccag tagatattga tggtantcgt 240

gaacctgttt ctggatctct tctttacgga aacantatta tttccggtgc cattactcct 300

acttctgcag ctattggatt gcatttttac ccaaatcctg ggaaacctgc atccgttgat 360

gaatggntat acaacggcgg tccttaagaa ctaantggtc tacactttta ctggggtaac 420

ctgttaca 428

<210> 1028
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-F8

<400> 1028

gcatgggaat gactccactg tgcagtatta tgtgccttac ttatccggta ttcagttgta 60

tgttgatccg ttgaagaagc ctagaaatcc agttggagat aatgaaggaa gtagtgaagg 120

aagcagcaac agtaggactt tgccggtgga cttgagtgtc ggtgaactga atagaattag 180

tctgaaagat caatctatta ctggctcgtt gtctagtgga gaagctgaga tcaacaatcc 240

gcagggacga ttactattcg agtacttgga gtatgaacct ccatttggca aggaacctcc 300

ggctaacaaa atctcggatn tcgcgtcaag aattcctgan ctaatgacat acccggagct 360

gtgatcntcn tccctcaagt tgggtccccn gtgtca 396

<210> 1029
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-F9

<400> 1029

tgggtttgat ttggaggaca acgcattgct ggatacttgc aacgatctga cttttggtgg 60

ctcatctact tctgatggcc agaagccagc ttctagtggc aagggctgtg aagaattacg 120

ggtatcgggt gacagtcagt cttctcggaa aaataaaaat gtagatcaaa gctgctcaac 180

ctctaaacag caatccaaag attttcctgc cgcaggcagc aatatcagtg agagccagct 240

agatgagcaa agaagaaaga ataacgaaga ggtttcacac aataacagat nagctgagga 300

atcaacttct ggtcatggag atatcaaaga aggtgcaaaa tcctggtggt ggtgcatcct 360

cngtgt 366

<210> 1030
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-G10

<400> 1030

agctaaacac taaattatca atccgctctc ttctcaaaaa aaaaaatcga ngctaaaatn 60

nnantctctc aangntcccc aaaaaaaccc tagttctgaa tggaatcggc ggattccgga 120

cgatccgatc cggtaaaagg agacgacccg ggtccatctt tcgtctcttc accaccagct 180

acacctagca ggtatgagtc acagaagcga cgcgactgga acacgttctt gcagtacctc 240

aagaaccaca agccgcctct cgcgttgtca cggtgtancg gagcgcatgt gatcgagttt 300

ctcaagtacc tcgaccagtt cggtaagacc aaagtccacg tggcggcttg tccttacttc 360

ggccatcaac aacctccgtc tccttgctca tgccctctca agcaancttg ggggatttct 420

catgctt 427

<210> 1031
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-G3

<400> 1031

aagacataat tttctctgtt ttcctagctc tctcctctca aattcttcca ttgctctctg 60

ttttggcaaa tcgtgaactg ccacgtcttt aaggcatcag tgaagcaaag atggactttg 120

acgaggagct aaatctttgt attacgaaag gtaaaaatgt tgatcattct tttggaggag 180

aagcttcttc cacgtcccca agatctatga agaaaatgaa gagtcctagt cgtcctaaac 240

cctatttcca atcctcttct tctccttatt cgttagaggc tttccctttt tctctcgatc 300

caacacttca gaatcagcaa caacaactcg gatnatacgt tccggtactt gagcaacgac 360

aaagacccga caatgcaang gcaagaanca aatggatttc cctttagtcc ccaaaaaaca 420

acaacagcaa gcaagcaan 439

<210> 1032
<211> 109
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-H12

<400> 1032

ntgaattttg tctagcctgn tcgtannnta acnanaattc ncgggnccna ccatgcgctc 60

cggaattcgg ctcganctcg agccgaatcg gctcgagcta gttctagat 109

<210> 1033
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-H3

<400> 1033

ggaatggagt gagagtttaa ggaaagagta tcttcttgtc atcgaaggct tcttctctct 60

tcctctccct ctcttctcca ccacttaccg caaagccatc caagcgcnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnaagat atgcttgcgg cgttgcttgc ggcggatgat ggattttccg atgaagagat 240

tgttgacttc ttggtggctt tacttgtcgc cggttatgaa acaacctcca cgatcatgac 300

tctcgccgtc aaatttctca accgagactc ctttagctct tgctcaactc aaggaagagc 360

attaaaaaga ttaaggcaat gaaagagtgg atcctaanat ccttgaatng gagtgaatta 420

caanttcaat ggccantcaa acaaatg 447

<210> 1034
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-F1

<400> 1034

gagatgattt caaggttggt gactgggtca gagtgaaggc gtcagtgtct tccccgaaat 60

atggatggga agacattact cgaaatagta ttggcgttat gcacagctta gatgaagatg 120

gtgatgtggg tatagctttc tgtttcagga gtaaaccttt ttcatgttct gtgacagatg 180

ttgaaaaggt tacgcccttt catgtgggac aagagattca tatgacacca tcaatcaccc 240

aaccacgact tggatggtca aatgagactc cagcaactat tgggtaaagt aattgagaat 300

cgacatggac gggactctga atgcacaagt gactggtaaa caaacgttgt ggagggtctc 360

aactgggaga tgcagaactg cnttcaaggt ttgaagttgg tgaattgggt tcgctcaaaa 420

anc 423

<210> 1035
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-F3

<400> 1035

ctcgagaatg gcatcaattc tcaggtcagt ggcaacgact tcagccgtcg tagccgccgc 60

ctctgcgatt cccatcgcga nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncgatcg tctccacgtc tcttgggact 180

ttcacgaagc ttcgttagct ctccgatggc gactgctctc acttctgatc gtaatctcca 240

tcaggaggat cgagccatgc ctcaagcttc ctactgaagt ttaaggggggg atatgacaag 300

tnangggttg tgttaaatgc tgtgaagaac aaattagaaa ccantggaag gtatgagaaa 360

ttggagggtg gatttgtcca aatcaaagtt gtganggata acttgggatn ntcccccngt 420

taaaggcaat gac 433

<210> 1036
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-E9

<400> 1036

gncctatagc agagcaatga cgacgcatnc acgcgntacg ttaaaccccg gaattccggc 60

tccgaaggaa atttccccga agaaaaatgt cctgcctgtt gganggaaaa ctggcggtgt 120

tgggattctg ggctgcaagt tgcggcaaac ggtttgtggg agggttgcca aaatgtnncc 180

ctggacttgg ggattctccg gcgagacaac cacaaactga nacttttgtc cntggggcgt 240

tgcaccggcg atgaaataat cagtacgagg cttcagggga gagtaacaac gctgagaacg 300

atgcttgcaa gtgtggatct gactgcaagt gtgatccttg cacctgcaag tgaagaagcc 360

tttttaaata ancagagata atcgagtctc cttaattaat taagttattc aataaagtaa 420

accatatata aggatggtgt ttttaggttt ggtttaagtg taataatggc ttcagcttaa 480

cctttaagcc cgatnaattg tcctttgtgg 510

<210> 1037
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-G10

<400> 1037

ctcgagcaga gtcgccggga gatgggtcca ttgggagaag cacaggactt gctttaccca 60

ngtgggagct tcgacccatt gggcctcgct actgaccccg aggctttcnc gggagttgaa 120

ggtgaaggag ctcaagaacg gaaggttggc tatgttctct atgtttggat tcttcgttca 180

ggccattgtc accggaaagg gaccgttgga gaacctcgcg gaccacttgg ctgatccant 240

caacaacaat gcatgggcct tcgctaccaa cttcgtcccc ggaaagtgag tttaatttgt 300

gatcgagttg tgtgtatccg gtttgttgca tcctggaaat gtgatgcaaa tttcatatct 360

tgttaattac cttgtanggt tggtgaaaaa atttatnaaa cctttat 407

<210> 1038
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-G12

<400> 1038

aacgacncac gcctacgtaa actcggaatt cggctccgag cgaagcaaga ggaggcagac 60

cgagtagaac tactgggttc aggatactgg aaagcaactg gatcacctgg tccagtcttt 120

tccaaagaca acaaagtgat tggagcaaag aaaactatgg ttttctacac tggaaaagca 180

cccacaggaa gaaaaactaa atggaaaatg aatgagtacc acgccgttga cgaaacagtc 240

aacgcttcca caatccctaa gctgagacgt gagttcagtt tatgtcgagt ctacataaca 300

acaggaagct ccagagcttt tgatagacgt cctganggag ttttgcagac agagaagaat 360

gctaacaagt gatgttgcag taactgagac atccttccgt tttggaaaag ctcactggga 420

aacttcnatt caggaggaga acatattgan gtcccaatga acac 464

<210> 1039
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-G2

<400> 1039

ctcgagctaa acanaaaaaa acccttcaaa acatttcctt antctttctt cttcatctac 60

aacaatggct ggagttgcct ttggttcctt tgatgattca ttcagcttgg nttctctaag 120

agcttacctc gctgagttca tctccacttt actctttgtt ttcgctggtg ttggctcngc 180

cattgcctac gcaaagctga cgtcggacgc tgctcttgnt anaccgggac tagtggccat 240

cgcggtttgt catgggtttg ctctcntcgt ggccgttgca ntccggagcc aacatctccn 300

gtgggcaatg tgaaacccaa ccgtcacttt tggtcctgcc gtcngtggtc aaaatcaaag 360

tcatcaccgg aagttttcta ctggatcctc aacntctcgg gtccaanggc ggcatggttt 420

ccctcccna 429

<210> 1040
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-G4

<400> 1040

ctcgagctac acaagtcttg aaattttctc atattttcta tttactatat aaacttttaa 60

tcaaatcaag attaactatg gctgaggagt acaagaacaa cgttcccgag cacgagacac 120

caacggtcgc aacagangaa tcaccagcga cgacaacaga ggttacggat cgtggattgt 180

ttgatttctt ggggaagaag gaagaggaag tgaaacctca agagacaacg acgctcgagt 240

ctgagttcga tcataaggct cagatntctg aancgggagt taactgccgg agcacgaagg 300

aaattgaagg agaacaagat tactccgcta aaaggagctt caaagaaaag accgaggaag 360

atgaggagaa caagcctaat gtcatccaaa agcttcaccc gattcaacaa gctcctcctt 420

cctccttcga gcgat 435

<210> 1041
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-G7

<400> 1041

tcgagggaag tttagatcga tggatattcg aaaacgatga gaagattact acccttagtt 60

gcgaagagag aattcgtatt ttgaaaggtg tagcttcagg aatattgtat ttgcatgaag 120

gatgggagtc taaggtttta catagagata ttaaagctag taatgtttta cttgaccgag 180

atatgatacc gaggcttagt gattttgggt tagctcgggt tcatggacac gagcaaccgg 240

ttaggaccac gagggtggtt ggtacanctg gctatttggc tcctgaagtg gttaagacgg 300

ggcgtgcatc gacacagacc gatgtttttg cttacgggat attggttctt gaagtaatgt 360

gtgggaaaag acctantgaa gaanggaaan aaaccgttga tggattgggt tttgggg 417

<210> 1042
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-G8

<400> 1042

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ccggagtact tcctccgcct tctcttcctc tgcctcttct cggagaagat cttcggattt 120

cactttcgac gatgattata gcgagctgct tagagctgct tccgttagga gtttaggtca 180

taagaatgag attgacatga tcatannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnngcgtt gcgatgggaa cggttacggt taaagggcgg tttgcctaaa gagctcnaat 300

tgttgggatg acaatgggta aggtttgatg aaagaaagat gaagaanaag ggtntgttaa 360

gaatcaaaag aanggatntg atttcctaaa acctcgtaac aaattacatg ctgttactat 420

taaaag 426

<210> 1043
<211> 528
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-G9

<400> 1043

gacgancgca tccacgcgtt acgtaaactc ggaattcngg ctccgaaggt gattccaacc 60

aagcaagggg aacatacact ttactggggc aagacaattt acacaactcc ttttgttcct 120

ccgaagaatg ggctcctgat ggggattccg cttgaagcaa ccgggagggt ttacanggac 180

tgggtacaaa ccccaaggat ctatggggaa aaacaagtac tttctttggg ggttaagaag 240

aaagggtttg gccggttcaa ggtaacccgg cttaccccgg tgggaccttt cttcaaccct 300

ccttgggttt gggaaagatg agaagtcact gaaggagttg aaactcaagg aggtcaagaa 360

cggtagactg gctatgctcg ccatcctcgg ttactttatc caaagggact anttgaccgg 420

tgttgggaac cttatcagaa cctggccttt gattaacttt ggcttgattc ccgttcaaca 480

acaaacgttc ttgaccaanc ctcaaagttt ccactgaagg gtgattaa 528

<210> 1044
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-H3

<400> 1044

ctcgaggtga tcaacaaaac accccaaaaa gtaaagaaaa tggccgcaat tacatcagct 60

accgtcacca tcccttcttt caccggccta aagctcgccg tcagctcaaa acctaagaca 120

ttatccacca tcagtagatc cacttccgcc accagggcgc cacctaagct cgctttgaag 180

tcctctttga aggatttcgg tgtcatcgca gtggcaacag cagcttcgat cgttttagct 240

ggaaatgcga tggccatgga ggttctttta ggattcgacg acggttccct tgctttcgta 300

ccatctgaat tcacggtggc taaanggaga gaagatctgt tcaaagaaca acgcaaggtt 360

cccaacataa cgtgggtgtt cgacnaanac aagattccca aatgggggtt ggacgcaagc 420

aaagatnt 428

<210> 1045
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-H4

<400> 1045

agaatgacnt cgcatgcacn cntacntnaa ctcggnactn gnctctagtg acaccgcact 60

ttgatctggg tatnggtncg aagaagaccg ttcgtgtgca aaaacatgag gtgtagagca 120

cttaacattc gtagaagaaa gagagtaatg gttaatgtga gctcaaggaa gctcatgacc 180

cgtctacggc gaatggttgc tccggagacg agtttttccg gcgaggttga cggtgctaca 240

ctttatcgac tcacggctga tcacattttc ttacttcaag caagaatcca acttcttcgt 300

ccgtattcct ccggtttggt gggcccccaa attcgaagat acacgttggc taaaaaaaan 360

gaccaagaaa tggnataatt aaggntaaaa cgtcngtttt ccccaaataa aatcncctaa 420

gcaatcaact tataagttcg tcctaatgcc gaagctataa tttgaacg 468

<210> 1046
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-H7

<400> 1046

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cttctctccg gcggttcaga ccttatcgac tcgttgccgc cgaattgtaa ccgagccgag 120

tgtccgagtt atgaggttgt ccacgccggg aatggctacg agattcatcg ctacaacacc 180

accgtttgga tttctaccga accaattcaa gatatctctc tcaacgaagc ttctggcaac 240

gattgtctga ttacatgaac gggaacaacg attatcacca gaggatagag atagcacttc 300

cttatatcac ccangtctct canaacttga gcaccttcat agtctctttc ttcgttccca 360

aggcattcaa actgatncaa ctccgggaaa caacctccac gtncagagat gggaat 416

<210> 1047
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-H8

<400> 1047

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acctcagccc tcttttcgca ctctctatcg gatccgggtt tgcgagattc actgcaacac 120

taactcatgt ggcattgttc ancggcaggg acatatggaa gcagacttgg tctgcagtga 180

acaccacgaa gctggacatc catggaaaat tgatgcaaag ctacaaaaaa gtgcctgagt 240

ggtggtttta tatantgctg gcaggaagtg taaccatgtc tctcctaatg tctttgtgtg 300

naaaggagtc agtgcagctt ccaaggtggg gaatgctctt tgcttttgca ttggccttca 360

ttgtcacact ccctatcggt gtcattcaag caactacaaa tcagcaanca agatatgata 420

<210> 1048
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-08-Q1-B1-A4

<400> 1048

cgagatcaaa aacgatttta caagaaaaaa atatctgaaa aatgtcagag accaacaaga 60

atgccttcca agccggtcag gccgctggca aagctgagga gaagagcaat gttctgctgg 120

acaaggccaa ggatgctgct gctgcagctg gagcttccgc gcaacaggcg ggaaagagta 180

tatcggatgc ggcagtggga ggtgttaact tcgtgaagga caagaccggc ctgaacaagt 240

agcgatccga gtcaactttg ggaagttata atttcccttt tctaattaat ttgttgggaa 300

tttcaaataa aatttgggaa tcataattga tcccgtactc ancgtacttg ttgttgtttt 360

taatgttgta atgttttaat gtttcctccc cctttanatg tactacgttt ggaac 415

<210> 1049
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-C3

<400> 1049

aggtgtctac tgagaaagca ccagctgctt tgggacctta ctctcaggcc attaaagcca 60

ataatctggt ttttctttca ggtgttcttg gacttatacc tgagactgga aagtttgttt 120

cggagagcgt cgaagatcag actgagcagg tactcaaaaa catgggggag atattgaaag 180

ctagtggtgc tgattattcc tcggtggtga agacaacaat catgttggct gatttggctg 240

acttcaagac agtgaacgaa gatatatgcc aaatacttcc cagctccttc tccaacacga 300

tcgacgtatc aagttgcaac tttgcctcta aacgccaaag atngaagatt gaatgtattg 360

caacactcca gaacactcaa aatcaatctc ctacnaaggg tantttgggc ccggaaaaat 420

t 421

<210> 1050
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-C4

<400> 1050

gaggtcgcgt cagtggttaa ggagtcgttc ggttcctgnt ggtggatgtg tagtggcggc 60

gtgtgcggcg gttggatatg tgtatgtgct aaccagtcac gcggtggagc tttcgttttg 120

gcgatttgat gcgcgtcgtc gtggtggaaa cagcgggttt ggagaatggc agaggctgaa 180

aagtccgccg ttaccggcac aggtgcggtt agatggaacg gtgaggttta actgcgtcgg 240

agtggaagat aaagtggcgg tggttcangt ggtgggatgc attgacnatt tgcttcggcg 300

gaattggaag ggtgagaaaa ggattanaga aaanccttgt gttgccgtat gataccaang 360

gaaggaaaat ttganganaa ccgcgggatt tacctgaaaa tgaattaaac ccnccgcctg 420

ttgctt 426

<210> 1051
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-C5

<400> 1051

tcgagtctct ctccatttgg cgatagaaga agtcatgtac caatcatcat cctccacgtc 60

atcatcatcg cagagatcat cgcttcccgg cggcggagga ctgatccgtt acggntcagc 120

tccgggatcg tttctaaact ctgtggttga cgaagtcatc ggaggaggct catcaaacgc 180

tcgtgacttc accggctatc anccgtcgtc ggataacttc atcggtaacn ttttcaccgg 240

agctgctgac tcatcctcgc tgagatccga ttcgacgact tgtggagtna acaactcatc 300

cgacggacaa gaaacagtag gcaatancaa taataataat agtantaaan atatccntcc 360

tcgaaagatt ctaanggtgg gattcaacna gatttcgcaa ca 402

<210> 1052
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-C2

<400> 1052

gagctccttt ctctctgtca cttatttccc ctctttgctt ccgtcgattc atcccaatct 60

gatcatctct ttctccggtt aaggtctcag gacttctcag attcgaatta taaatgggaa 120

attgttgtgc gagcccgggt tcggagactg ggagtaagaa ggggaaacca aagatcaaaa 180

gtaacccgtt ttatagtgaa gcatacacta cgaatggatc tggaactggg ttcaanctct 240

ctgttttgaa agatccaaca ggacatgata tatctcttaa gtatgatctg gggcgtgagg 300

ttggtcccgg anaatttggt attacttacn tgtgcactgg atatcaaaac gggcgaaaaa 360

tatgcgtgca agtccaatac aaagaagnag cntaanaaca acctgttgga taanaa 416

<210> 1053
<211> 75
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-D1

<400> 1053

ctcgaggttc tagatcgcgg gcggccgccc tttttgtatt tnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnn 75

<210> 1054
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-D10

<400> 1054

ctcgagtcgt taccatnaga angagagctc agagatttag ttagcttaat ttttcttttc 60

gttttgaaat taaggaagtg attgttatca ccggaggaga gagagaaaat gttgggaatt 120

ttcagtggag ctatagtatc gccgccggaa gagttagtgg ctgccggaag cagaactccg 180

tcgccgaaaa caaccggatc aactttagta aaccggttcg tcgagaaaaa tccatccgct 240

gtttctgtac aagtcggcga ctatgttcan cttgcttaca agccatcaca acganagtcc 300

tctccggcct aaatnatttg gagctaaggg atgaantatt ctgcttgttc caanggtcac 360

ntgacaacct aagaagcctt gaaacaagca ntacggggct tgcaaaaaac gcaaacaagg 420

ttctccttgg tc 432

<210> 1055
<211> 343
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-D12

<400> 1055

cgaggaacat aatgggtgct gatttgatga tgganccaac aagagatcna ncggtcgttg 60

gtgggacagg tgacttcttc atggctcgtg ggatcgctac cttcgtgact gatttatttc 120

aaggggggcta agtatttccg agttaagatg gatattaagc tctatgaatg ttactaagta 180

gctaagaatg tgtgttttgt ttgaaaattt tatgttgaca cagagaaatg tgtttacaat 240

aattaagnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnncaaggg gaaaanannt aaaaaaaaaa ggg 343

<210> 1056
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-D2

<400> 1056

ctcgaggaga gttttgtgaa ctcaagaaaa taaaaaaagt tatagttaat gggattcggc 60

ttagagagta tcaaatcaat ctccggcgga tggggcgcgg cggcgcgttc ctgtgacgct 120

tgtaaatcan ttaccgccgc cgtgttctgt cgagttgact cagctttctt atgcatagca 180

tgtgacacaa gaatccattc cttcactcgc cacgagcgcg tgtgggtttg tgaaagtttg 240

tgaacaanct cncnccgccg tcacttgcaa agccgacgcc gncgctcctt tgctcanttt 300

tgatgcccga tattcactct gctaatcctc tcgccaaccc gtcatcnaaa gtgtccccgt 360

ccaaacnttc ctcnagtcaa ccgaaaacga ccgtcgccaa aatctcanct tcctcgactt 420

ttgggaaccc 430

<210> 1057
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-D4

<400> 1057

ctcgagattg agctgtcagc tgaaatcctt gcgaatgtga agtttatcca aganaagcgt 60

ctgattggga agtactttga ggagataagc caggacacgg ggaagtatgt gtttggtgtg 120

gaagatacgt tgaacgcttt ggagtctggt gctattgaga cactgattgt atgggaaaat 180

ctcgatatca acagatatgt gatgaacaac agtgcgactg gtgaaactgt gatcaaacac 240

ctgaacaang gaacaagaaa gccaacactg aagaaactca aaagtaaccc gacagttgac 300

cttggctttg gaccctngaa ggaaaaagct gtcnttaccg gaattggctt gccaatgagt 360

acaagcgttt tgggtgtgcn ttaaaagttt gtgaccaaca agtcacaaga aaggtcncaa 420

ttttgcaaaa gggttg 436

<210> 1058
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-D5

<400> 1058

gagacaaaac ccctctcaag caaataatac acnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn aatggcggaa ccgattccct catcgtctct gtcaccgaaa 120

tctctacaat ctcctaatcc tatggaacct tctccgtgca tcttctactc ctttaccttc 180

atcatcatct caacgaacaa caactcatga cagctccgat ttccaattct gttaattccg 240

ctgcgtctcc ggcgatgact gtaactacca ccgaaggtat tgtattcaag aacaattcgc 300

aaacctaaaa tctcctctcc caaannctan ttcttctaan ccaacaatcn ggngctcaga 360

ttccgttcgc nttctcntct ctctcaacct tcctcaaccg gtaagatnaa gcaaa 415

<210> 1059
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-D6

<400> 1059

tcgagaacct tctcttcttc ttcttcttgc gagttgcacc gaaacactca acaaaaccaa 60

atcatccaaa ttgggtaaaa caaaagaaac taacaagaag aagatcgaat tcaagaagaa 120

nagatggaga atggagcaac gacgacgagc acaattacca tcaaagggat tctgagtttg 180

ctaatggaaa gcatcacaac agangaagat gaaggaggaa agagagtaat atctctggga 240

atgggagacc cancactcta ctcgtgtttt cgtacaacac aagtctctct tcaagctgtt 300

tcngattcnc ttctctccaa caagttccan ggttacnctc cnaccgntng gtcttcccna 360

agctcaaagg gcaatancag ggttnctaac gcctgatttt caancaa 407

<210> 1060
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-D9

<400> 1060

ctccgaaggt tctaagattc gccggggcgg gccgcccgaa ctaanttgag cctccgtccg 60

aacccgngga aattaatttc cgggaccggg ttacctggcc agggcggtta ccaagccttt 120

cccctaataa ggtggagttc gtattaagna agcttgggcg gtaatcatgg gtcaatagct 180

ggtttcctgt gtgaaattgt tatccgctca caaattccac acaaacatac gagccgggaa 240

gcataaagtg taaagcctgg gggtgcctaa atgaagttga ggctaaactc acattaaatt 300

gcgttgccgc tcactgcccg cctttccaag tcggggaaaa cctgtcgtgc caagctgcat 360

taatgaaatc cggccaaacg ccgccggggg aaaaggcggt ttgccgtaat tgggggcgcc 420

aagggtgggt ttttccnttt caaccaagtg aagacngggc aaacaagctg aattgccctt 480

caaccgcctg gcccctggaa na 502

<210> 1061
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-E12

<400> 1061

ctcgagcttc tctattcgtc gtcgacctat tttcctcagc catggccgtc gggaaaaaca 60

agagaatctc taagggtagg aagggaggaa agaagaaggc tgttgatcct ttctccaaga 120

aagattggta tgatgttaag gctccttcaa tcttcactca caggaatgtt ggaaagacac 180

ttgtttccag aactcagggt accaaaattg cctcagaagg cttgaaacac agagtttttg 240

aggtttctct tgctgatctt caaggtgatg aggataacgc ttacaggaag atccgtctca 300

gagctgaaga tgtccagggc aaggaacgtt ctgtgccaat tccggggcat ggacttcaac 360

aaccgataaa ccttaagtca aatgggtaaa aaattgggaa actttgatna aggcccatgt 420

<210> 1062
<211> 109
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-E2

<400> 1062

ctcgaggtaa aatttgcaag actttgtatt tttttcatta atcaaataac tcgtttttct 60

ctcaaaaaan nnagaaacag aanaaaaaag atncnaaatg naaaaaaaa 109

<210> 1063
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-E3

<400> 1063

ctcgagcaaa aaaaaatctc tgaaacaatg gcgtgttgct tagcttcgtg ctgtgcgtcg 60

gcgacttgtg gattatgctc gtcggtagca tcggggatat cgaggaaatc agcgaggatc 120

gcttattgtg gtcncttcgg tgcctctctt gtcgtctcct ggattcttcg tgagacnggt 180

gctccgctcc tcgagaaact cccttggatc aatacttctg attcanatac canagaatgg 240

tatcancann annctgttcn tcgtgtgagc nttgggaatt ncctcntctt tgcaatntan 300

gctttgatca tgattggtgt caangaccaa aaatgacaag cgtgactccn tggnaccatg 360

gtgggtgggg tttgaaaaat gattgtccgg gttttgccnt gttgtcctca ag 412

<210> 1064
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-E5

<400> 1064

tcgagaaaaa aanaaaaata gtgaagacga cgaacctttg aggacactct tcggtttctc 60

caatccttca tatgatgtcg gacggaggag caccgtcgag atacgtgaag ttgacnaagg 120

aanaagcncc ggtcgatgag attcatcccg gtgaactcaa tcagcccatt gaagtttctc 180

atctanctgt tcacaaatgc aatgagtgtg gccaaccttt gcctgagaat tttgaagctc 240

ctgctgatga gccctggact accggaatat tcggctgcac tgaggacatg aatagttttt 300

ggctgggact tttctgccca agtgttctat ttggacgtgt ctatgaaact ctgagtgatg 360

aggaaacctc gtggaaaaaa gcatgtantt gcca 394

<210> 1065
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-E7

<400> 1065

tcgaggcaga tttanagcgt gtgagggaga taggaagaga gaaagtgagc gagagacgat 60

cacggccgcg ctgaaatcca cgaccacggc cgcgctgaaa tccacgacca cggccgctct 120

gaagaagaag actctctccg tctcctccct tctcctcctc cgtctaagag acaaggcatc 180

cccagacgcc atgatctctc tcactccctc gttgtttctg aacaagacgg ttgttcctgg 240

atgttccaca cgcctctctc tgcgccagcc tagaactata attactcctc ctgcttcctt 300

gagagtcttt tcctctctcg gatctaacca ggattccacc ggcagcgttt tgattgagac 360

cactgccact tcatcctcct ctctcgaaac tccgccgccg acaattgttc ccaaat 416

<210> 1066
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-G1

<400> 1066

gnattcggct cgagaacaga cagcaaatga agaacagttg acttcaaaaa cacacttctc 60

atcatgacat caaacgtcgg aagcagcgtg attgagaaag gaggangacg tatcggattc 120

gacttagact acgacgagaa agacagcagt tacaacagaa tcaagagcct tgtaacagag 180

gagctgaaac aatacttcag acccgagttc ctaaacaggc tagacgagat gattgtgttc 240

agacagctaa canagctgga agtgaaagaa attgctgaca tactgttgan ggaagtgttc 300

ganaggttga agaagaaaga gattgagctt caggtgaccg aaagattcaa agagaagagt 360

agtagaccga agggtataac ccgagctatg gagcaagacc gttgagaaga agccatccat 420

gaaggctttt agaggg 436

<210> 1067
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-G2

<400> 1067

ctcgagcacc gaactaacaa aatttgaaat tcccaaagca aaaacaaatt acatcattca 60

attcaattct caatgcctct tcttctccct acctcttcnt tcaaaacgac ggccaccgtc 120

gtaatcgccg gcgtttcatc tattgccacg gcgatgattc tcacggtccc ttccgtttcc 180

catttcgtag tctcttgctt tccgattatt tacgataaca ccgtcttcct cttaaaacca 240

ccgtatcttt acttagtcat caactctatc atcgtctgca tcatcgctac ttctaaactc 300

actcataaat cgtcctccgt cgatgactct gagatctcgg aagtagtgac tccaataccg 360

ataccggtac cggttcattt ancttctgat atccaattcc ggttaattta aacgtgggt 419

<210> 1068
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-G4

<400> 1068

tataganata agacgtcggn cggncgcgtt acttaaacan ggaattcggc tcgagcggct 60

cgagcggctc gagcggctcg agatttttt aaagaatggc ttcaatttct gcaactttgc 120

cttcgccatt gttactcaca cagagaaaat ccaatctcac atcgattcaa aaactcccat 180

tttctctaac tcgaggtacg aatgatcttt ctccattatc tcttactcga aaccctagca 240

gcatcagtct gatggtgaaa gctagtggag aaagctcaga ttcatcgact gatctcgacg 300

ttgttagtac gattcagaat gtttgggata agtctgaaga taggttaggt cttattggtt 360

tgggttttgc tggtattgta gctctttggg catcattgaa tctcatcacg gnaatcgaca 420

aattgcccgt tatctcgaac gggattcnaa ct 452

<210> 1069
<211> 114
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-G6

<400> 1069

gcacgcgtac anaaactcgg aattcggctc gagactagtt ctagatcgcg agcggccgcc 60

cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnaatggaga aataaaaaaa aaaa 114

<210> 1070
<211> 205
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-06-Q1-B1-G7

<400> 1070

atattggatc atgagtgagt gaaaagagct gatattaccg atttttaaat acctctctta 60

tcttcttttc gtttggtcgg tatatgttta ttgagtttca tgtattgttt gtgatggtct 120

gtgtgtaata gtgaggtcgg atctaaactt ttatgcgtgg tttttatatg aaattgtcca 180

ttgtggttaa aaaaaaaaaa aaaaa 205

<210> 1071
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-F6

<400> 1071

ggngaatgat ccccaaggag actatagaca cnagatgacg tccnacncac gcgtacnnaa 60

actcggaatt cggctcgagc tcctccctca cgtcttccac caccgtagct tccgccacca 120

ccacctcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnaattcctt taattaggtt tgggattacc aatgaatgtt ctctctctcg 240

cttgttatgc ttctacttgg ttttgtgtgt tctctatttt gttctggttc ngctttaaga 300

tttgatgtaa tagttcgtga ttaggtattt tggtatcngg naacntaatg ttaattcant 360

tgttntttan cgtatgannc gtgnacttaa cattctnaaa atgacaaaat ttcttccggn 420

naatataacc cctgttgatt ggaaaaatgg gattaataac gggcgg 466

<210> 1072
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-06-Q1-B1-H4

<400> 1072

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ttcaaaattt attcatttgc ncattgtngt ttttgctnct ttgtactttt ctttcncgta 120

ccgaatctgc tcttccttat caccatgaac tgttcttggg gaggaagcgg atgaattatt 180

ataagcccaa cagtgccata ggaacaccat catcaactag tgaccacgct ccaaggcagt 240

aatgggagga agttgatgag tatatataga cccaatggag acatatttac aggaccatca 300

ggcagtgggc atggtggggg tcgcactcca agccccctaa gtatatatat attaatgtgt 360

aatcaaggac tcacaagcga agctttaatt ctcgattacg tataacgtat gcgttggtgt 420

agtatatgtt aatttcngtt ttcacaagcc aagtttttca 460

<210> 1073
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-A1

<400> 1073

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acaagtatga cattggggct ggttttggtc actttggtat tgcggtcgat gatgtggcga 120

aaactgtaga gcttgtgaaa gccaaagggg gaaaagtaag ccgggagcct ggtcctgtca 180

aaggtggcaa aactgtaata gcattcattg aagatcctga tggttacaaa tttgaactct 240

tggaaagagg tcctacacca agaacctctt tgccaagtta tgctccgtgt tggtgatccg 300

atagggccat aaagttctat gagaaggctt ttggnatgga acttctgcga acaaagagac 360

aanccaagag tacaagtnca caataaccca tgatnggata tggtccaaaa agataaantt 420

<210> 1074
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-A12

<400> 1074

atngccagag aatgacgacg catncacgcg tacttaaacc cggaatncgg gtccaagaaa 60

ancctttnac ttnnccaaaa tcctaacgga atngnccncc ncaaaatngg tnctcnccnc 120

tcctgcttng accggaaagg cgnttaanct atcccnggng gcctccgang tatttggaac 180

cggccgaatc acatgcgcaa agcctccaag cccaccggtc catccggcag cccatggtac 240

ggatccgacc gagtcaagta cttgggtcca ttctccggtg agcctccgag ctacctcact 300

gggagagttc cccggtgatt acgggtggga cactgccggt ctatccgccg atcccgagac 360

cttcgctang aaccgtgagc tagaaattta tccacaagca agatgggcca tgctccggag 420

ccctaagctg cgttttccct gagctattgg gctaagaaac ggattgaaat ttccggagaa 480

acc 483

<210> 1075
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-A3

<400> 1075

atgaattang tggcctatag ccgagaatga ngaaangncc tcgcatgaag taanctcgga 60

attcggctcg agtcttcatc aaatcatcag atctaaccag ngtttatcag aagaacactg 120

tcagtacttc ttgtaccagc tacttcgagg actgaagtat atccactcag ctaacattat 180

tcatagggat ttaaagccga gcaatcttct gttgaacgcg aattgcgatt taaagatttg 240

tgatttcggt cttgctagac ctacttcaga gaatgatttt atgactgagt atgttgttac 300

gagatggtat agagcacctg agcttctgtt gaactcttca gattacacag ctgctattga 360

tgtttggccg ttggttgtat ccttaaggag cttatgaata gaaagncntt gttccctggt 420

aaaagancat gttcatcaaa tgcgcctaat gacaaanttg cctggnacac cgacaggaat 480

ctga 484

<210> 1076
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-A4

<400> 1076

tcgagctctg tctcaaaaga caagtagatt ccttttttttt acagtatcca ataatttgta 60

atcatataaa taatcggtga aaaagaagga ttctttgttt gtttcccgag aaaatatcct 120

cgatttccat ctcctatctg tcatcggagc tttctacttc cgaaggagta aaggatcaat 180

caagagtttg atcttgttag aatagccgat aatggaagga gatgtgttgt caggatttgg 240

agacagacac aatatggatg ggaaattgtt gcagagtttc cagaagagct ttgtggatgt 300

tcaagacatt ttggaccaaa accgattaat tgnttcaacg aagatnaatc agaancatga 360

atcgaaacaa ccaagataac ttgggtcnaa acgtgggggt tatnaaaaga gctcaacaac 420

aattatcag 429

<210> 1077
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-A6

<400> 1077

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tcgaatcttt agttgatgtt gtttaaaggt tttagctaat aagggcatga aacggatctg 120

ctcggtttca agtgttcaac tttaagtttc agagctttag catcgccacg ttccttgaac 180

tatcccctgc agtgtatcaa gcgttcatca gttcggatgg agagtagcaa cttttcttct 240

ggtgtcagaa ccgagagtag tgtgaagcca agaggagcat tgatagttct agaaggtctt 300

gatcgcagcg ggaaatcaac acagtgtgct aagctactct cnttcttgaa tggtttagga 360

catccgaccg agctctggag aatccccgat anagagacna atgtcgtcaa at 412

<210> 1078
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-A7

<400> 1078

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gcaaatcttt tgggctcgaa acttcctcgg ntcgcctcac ttgctccttc nagtctgant 120

ttaaggactt caccggtaaa tgctccgacg ctgtcaaaat cgccggattc gctcttgcca 180

cctctgctct cgtcgtctcg ggagcaagtg cggagggagc tccaaagaga ttgacctatg 240

atgagattca gagcaagaca tacatggaag tgaaaggaac tggaacggct aaccagtgcc 300

ctactaattg acggtggctc ctgagacttc tcgttcaaaa ccgggaaagt atgcaagaaa 360

agaagttctg cttcgaacct anttc 385

<210> 1079
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-B3

<400> 1079

ctcgagcanc gatggagggc tcgattactt gggaaaccct agcttggttc acgctcagag 60

cattttggcc atttgggcca cacaagttat tttgatggga gccgttgaag gctacagagt 120

cgcangaaat gggccattgg gagaggccga ggacttgctt taccccggtg gcagcttcga 180

cccattgggt ttggctaccg acccagaggc attcgctgag ttgaangtga angagctcaa 240

naacggaana ttggctatgt tctctatgtt tggattcttc cgntcaaagc catcgtcact 300

gggtaaangg aaccgataga naaaccttgc tgaccaattg ggccgatnca gttaacaaca 360

acgnattggg ccttcgcanc aaaantttgt ttcccggaaa agtgaaccca agttttaacc 420

tgtaattttg gcn 433

<210> 1080
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-07-Q1-B1-B7

<400> 1080

cgagcaacaa atctcaggcg gctcaacact atcctcttct acattttcca acgatggcct 60

caaacgcact ctcgtctttc accgccgcta atcccgctct gtctcctaag ccactactcc 120

ctcacggctc tgcttctccg tcggtttctc tcggcttctc caggaaagtt ggcggcggca 180

gagcagtggt cgttgcancg gctacggtgg acacaaacaa natgccnatg accgnagtcg 240

tgttccagcc tttcgaanag gtgaagaaag ccgatctggg ccattccant cacatctcat 300

gnctctctcg ctcgcaagaa gtttgccgaa gctancnang nantcaatan tgaacaantc 360

aatgtnggat acaacgtctc cnaagttgtn cagncaatgt taggcatacc ttggc 415

<210> 1081
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-07-Q1-B1-C1

<400> 1081

aggacaaaaa ccaaacctct ttcactatta cacttttcct caaaaaaaag aaaaatgtat 60

ttgttagtgt ttaaactctt tctatttttg tctcttcttc aaatctctgt ctctgctaga 120

aacctagctt cacaagaacc aaaccagttt caactactca agtaccacaa aggagctctt 180

ctctccggca aaatctccgt taacctaatc tggtacggca aattcaaacc atctcaaaga 240

gcaatcatct ccgacttcat tacctcactc acacacactt ctcctacgtc caaaactctc 300

caacaaccat ctgttgccac gtggtggaaa aacacaagaa aaatactaca aactccgcaa 360

caaccaagca aaaactcatc aactccggtc tcctaactcc tcgggaaaca aatcatccga 420

cgag 424

<210> 1082
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-F5

<400> 1082

aggtgaagac atcatccctg agtacctcgg atttgtgaaa ggtattgtcg actctgaaga 60

tcttcctctc aacatctcga gagagacatt gcagcagaac aagatcctca nggtcatccg 120

caagaacctt gtgaagaagt gccttgagct cttctttgag attgctgana acaaggaaga 180

ctacaacaag ttctacgagg ctttctctaa gaacctgaag ctcggtatcc atgaggactc 240

ccagaacaga accaanattg ctgagttgct ccgttaccac tcaaccaaga gcggtgatga 300

attgactagt ctcaaggact acgtgacaag gatgaaggaa ggtcagaacg atatcttcta 360

catcactggt gaagaacaag aaggctgttt gaagaactct ccattccttt gaagaaagct 420

caagaaagaa aaggtattga ttttc 445

<210> 1083
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-022-Q1-B1-G11

<400> 1083

tctatgttga ttatactcaa agaggtcttc tcttccccaa acccgacccg gaaacccatt 60

tcatctctcg attaagaacc tctctttctt ctgctctaga tatttacttc cccttcgctg 120

gtcgtcttaa caaagttgaa aatcatgaag acgaaacggt gtcgttttac atcaattgtg 180

acggctctgg tgctaaattc atccatgccg tatccgattc tgtttcggta agcgatcttc 240

ttcgacctga tggctctgtt cctgactttt tcaggatttt ctatcccatg aacggtgtca 300

aaagcatcga cggcctctcg gagcccttgc ttgctttaca agttaccgag atgagagatg 360

gagttttcat cggttttggt tacaatcaca tggtcgcaga cggtgcttcc atctggaat 419

<210> 1084
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-022-Q1-B1-G12

<400> 1084

acattcaagt tcatgggtca cattcaggag ctgtgaagat ggctgttatg gaccagcaag 60

ctgcagttgc agaaggtcgc ttgcttaaac tcccattctc aaccatatat gaatatctcc 120

agatgttgcg gttgattgct acgatattga aagatgtcgg tccatgttcg atgttttatc 180

ttgctgctgc tgtatctgac ttctatgtgc catggttaag catgacagag cacaaaatag 240

aatcaggatc tggtcctttg gacataagac tagctcaagt ccctaaaatg ctttcaatct 300

tgagatcaaa ttgggctcca aaggctttct gcatatcatt caagcttgag acagactcaa 360

agattttgct agagaaagct acaaaggctt tacaaaaata caaagtgcac gca 413

<210> 1085
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-G6

<400> 1085

aacgtggcta cggtgacaat ggaggaaatt acaataacnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ttactgccgc cacggctgct 240

gctacagagg ttacaacggc tgctcaagat gctgctcgta tgccggagaa agctgttcag 300

actcagcccg gtcactaaac catnatatta ncaatccaca acaatccagt nattccatta 360

tgtnagtttg aattttnaat taancatggt gccttttgta attaactgcc tcaaattttt 420

gangcactat 430

<210> 1086
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-G8

<400> 1086

ataagaaaga gctcaacatt gttctctgac tctataaata actgttcttg gaaattttcc 60

aagagaacaa gaaacaaaaa caaaacgttg tttaagtgtg gttctataga tttcttgtga 120

atgtcttctg aacaaggaaa tggatcgaat ccttccacgt caccggaggt agaagggact 180

aaaacaatcc cctttcgccg gagattgcaa agaggacaaa gagttttcgc tccaaagctg 240

atggaggctc tacgtcgatc aagggtaagc tctgaagaag ctccggtaag gcatcttagt 300

cgtagatgga gagccacaac gggcgcaaga aggtataatc cctaaaagct cctaacgacg 360

ctccttcaaa cgatttgccg gcgggaaccg caacanntcc gggggacaac gggcgacaaa 420

agtcctttgc caacgaaccg ctcnttggtg ca 452

<210> 1087
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-G9

<400> 1087

aacggagata aaggagaaaa ctttagagcg tgttcaagtt aataacagtt ctgtcgataa 60

tggaaaagct cttcgtacca tcatttccca aaactttntt gaannancag actccagcta 120

aagtagagaa ttcgcctgaa cttcatccaa aatccagaaa gaaaaaccta tcattcacca 180

agaagaaaga acccaatatc attcccgacg agcaattcga ttacttgtgt agaaacggna 240

gtttgctcga agctgagaaa gctctggact cgttgtttca acaaggttcc aaggtaaaac 300

gaagcactta cctcaaattg ntggaatcgt gtattgantc tggttctatc catttgggtc 360

gtatccttca tgctcggttt ggtttgttta ctgaacntga cgtcgttgtg gaaacgaagc 420

ctgttganc 429

<210> 1088
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-F4

<400> 1088

gcaaaaacaa acactatggg acacctcaaa agtctcttca caattctttt cctaatagct 60

atgtcttcaa ccgtaacatt tgccggtaaa atacccgcga tcatcgtgtt tggcgactct 120

tccgttgatg ccgggaacaa caactatatc ccaactgttg ctagaagcaa ctttgagcca 180

tatggacggg actttgttgg tggaaagccg accggacggt tttgtaacgg aaagattgcg 240

acggatttta tgtccgaagc cttagggctt aaaccaatca ttccggcgta cttgggatcc 300

ttcttataac atttcggatt ttggcaacaa ggtgttacct ttgcctccgc ctggcaactg 360

gctaagacaa cgccaacttt ctgatgttcc gtccggtact aacctcctaa tgggaaacaa 420

actccgaaat actacaanag aaataccaaa ccaaaaactt t 461

<210> 1089
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-H2

<400> 1089

tctcaagcct ttgaatacat caaatccaac ggtggcctcg acacagagaa agcttatcct 60

tataccggta aagatgaaac ctgcaaattt tcagctgaaa acgttggtgt acaagtcctc 120

aactcagtca acattactct gggtgctgaa gatgaactga agcatgcggt tggattggta 180

cggccagtaa gcatagcatt tgaggttata cactcgttcc ggctttacaa gagtggagtt 240

tacactgata gtcactgtgg aagtactcca atggatgtga accacgcggt tttgggccgt 300

tggttatggg agttgaagac ggtgtaacat attggctaat aagaactcca tggggaacgg 360

attggggcga caaaaggtac ntcaagatgg agatggggaa gaacnttgtg gtaatgctac 420

atgt 424

<210> 1090
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-H8

<400> 1090

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cgaggttgca atggtggcct tccttctcaa gcctttgaat acatcaaatc caacggtggc 120

ctcgacacag agaaagctta tccttatacc ggtaaagatg aaacgggcaa attttcagct 180

gaaaacgttg gtgtacaagt cctcaactca gtcaacatta ctctgggtgc tgaagatgaa 240

ctgaagcatg cggttggatt ggtacggcca gtaagcatag catttgaggt tatacactcg 300

ttccggcttt acaagagtgg agtttacact gantagtcac tgtggaagta ctccaatgga 360

tgttgaccac gcggttttgg ccgttggtta tggaatttga agangggggt accnaattng 420

gcttattaag aacccccntgg gggaaccggt ttgggggcca acaaagggt 469

<210> 1091
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-A1

<400> 1091

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ttttaaaaat gggttttctt cttttgtaac gaaaaaatgt gtcaaacttt gaattgacca 120

ttttttttta taaggattcg atgaagaaat tgagaagcta ttactcaaat gtgagannnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gagaggaaat 240

ggatattttt ccctctattg attgggtcaa tcctcgcttg ttcctaactc ctcctcacaa 300

caaacctaac tttaaccaaa ccggagggag tcccgaattc ccccttttaa ccgaacccgt 360

tttggttaaa cgggtntggg tcaacaactt tcgttggaat ccaaaatcaa acctcaacaa 420

atct 424

<210> 1092
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-023-Q1-B1-A11

<400> 1092

aatgaattcg ttagccggcc atagaagaac taagacgtcg catgcacgcg tacgtaagct 60

cggaattcgg ctcgagggaa catcgcctga ctctgtgccg cctcgtttgg cccgtagaaa 120

ctttcctatg cctcctggaa actacatggg atctggttat cctgctatgc gaggtcatcc 180

ttttccattt gcttatccca gaggaattgt tagtcctcgc cctctaagta gctctcctgg 240

atctatatca cctggcatgt caacaccttt aggcattggt ttgagttctg tggttcaaac 300

cgaaggtcca gaaggtgcaa atctgtttat ctataacata cctcgggagt tcggggatca 360

agaactcgcg gctgcatttc aatctttcgg tattgttctg agtgccaagg tttttgtaga 420

caaagccact ggtgtaagca aatgtttcgg ttttgttagc tatgactcac aagccgcggg 480

gcagaacgct attgacatga tga 503

<210> 1093
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-A2

<400> 1093

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ggcgactatg atatgtatcg acaactccga gtggatgcga aacggagatt actctccgtc 120

taggttacag gcgcaaacgg aagctgttaa tcttctttgc ggagccaaaa cccagtcgaa 180

tccggagaat acggtgggga ttttgacaat ggctggcaaa ggagttagag tatttgacta 240

actccctaac ctcctgattc tggnaaaatt cctgggcctg gtaatgcaag ggcttgatgt 300

nggaaggaga aattaactta accgcaacta tccanattgc ccaactaact cctaagcatc 360

gccaaaacaa gaatcaacgc caaagggata atgnttttgc cggaagtcca atcaag 416

<210> 1094
<211> 508
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-A4

<400> 1094

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ggcncaaaat tggtttncag ctattgatct tgancaaggt gcaaaaangg agaanccggn 120

tgcatataag gccncctgga agttactcaa gggtgctgat ggcgttcttg tgccgggagg 180

ttttggcagt agaggtgtag aaggaaagat gctggcagcg aaatacgcca gagaaaacag 240

aattccatac cttggtatct gtctaggtat gcaactcgct gtgatcgagt atgcaagaac 300

catactcggt ttggcagatg caaattagca ctgaactttg atccaaacac caaaaaaccc 360

cctgttgtta attttcaatn cctgaagggg tccnaaaacc catatgggaa ngcactattg 420

aggtttaggc tcaaagaaag aacttaattt caatcnaaag gactccaaaa tcaagcaaag 480

actatatggg aaacaaaagt ttttgtta 508

<210> 1095
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-A5

<400> 1095

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cgtggatatc caggttatat gtacactgat cntgcaacta tttatgaacg tgctgggcgt 120

atagaangaa ganaaggttc catcacccaa attccaatcc tcactatgcc caatgacgan 180

atcactcatc caactccgga tcttactggt tacattactt gaaggtcaga tatatatcga 240

taggcaactt cacacaagac aagatatatc aaccatcaac gtgcttcatc ccttccgcct 300

ttaaaggaaa atngtaaccg ccaaggcaat gactccgtta angccaatcc ggaagtgtcc 360

nancaaactt gnaggcaaaa taaggcaanc nggaaaaatt ntcaaaccaa taa 413

<210> 1096
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-023-Q1-B1-B1

<400> 1096

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ggaagtggtt tgcgccgagc acggcatcga tccaaccgga aggtacaccg gagactcaga 120

tctgcaactt gagcgcatca acgtttacta caatgaagcg agttgcggta gattcgttcc 180

tcgtgcagtg ctcatggatt tggagcctgg gactatggat agtctcagat ctggaccgta 240

cggtcagacc tttcgacctg ataacttcgt ctttggccaa tccggtgctg gtaacaactg 300

ggccaaggga cactacacgg gnaggagctg aactaatcga ttccgttctc gatgttgttc 360

ctaaggaaac tgagaactgt gactgtctcc aaaggggtcc angtttgtca ctcnttggga 420

agaagaactg g 431

<210> 1097
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-B12

<400> 1097

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acattcgttg cagagacaaa gatgtctgag tatttggtaa ctggaggaac aggtttcatt 120

gcttcttaca tcatcaaatc acttctcgaa ctcggacaca ccgttcgaac aactgtccga 180

aacccacgtg atgaagaaaa ggttggattt ttatgggaat ttcaaggagc aaaacagagg 240

ctaaagattc tccaagctga tctaacggta gaaggaagtt ttgatgaagc agtgaatggt 300

gttgatggag tattccacac tgcttctcct gttcttgttc cacaggatna taacattcag 360

gagactttgg ttgatcctat tataaagggt acaacaaatg tgatgagctc ctgtgccaag 420

tctaaa 426

<210> 1098
<211> 87
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-B4

<400> 1098

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nnnnnnnnnn nnnnnnnnnn nnnnnnn 87

<210> 1099
<211> 528
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-022-Q1-B1-B9

<400> 1099

atgaattttt gtgacngcct anaagagcta taaacgtcgc atgcacncgt tacgttaagc 60

tccagaattc ggctcgaagc gactcagcgc aaagcttctc caaagattcc cccagaaaca 120

tccaacttcc tccaatttca acctcatcct cccgctgaag ctgtactctt aagctgaagc 180

atcgtcgtcc tttcttcctt gtctttgtaa taattgtact ctttctaata aacaatccac 240

acggcacaat gcancgcgca atgagctccc gcgtgcgagc ttcggtctga acgcggctac 300

caagtaccgc accggtgccg gtcttggaca gangtccgct ttgctcacaa ggagctcaag 360

ttcggtgttt aggggcgcgc tgctctcctc gcctggngtc naaactctgg gcaaagggcg 420

tttgctaaca aaccttnggc cccaaggggt ccaaaggtct tgattgaatt ccaacctttn 480

gggtccncca aannttcccc aaggggcngg tgttaaccgt ttcccnag 528

<210> 1100
<211> 519
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-C1

<400> 1100

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gctcganaat tcggctcgag atcaaagttt tcggtcaccc agcttccaca gccactagaa 120

gagttctcat cgctcttcac gagaagaatc tcgactttga attcgttcat atcgagctca 180

aagatgggga acacaagaaa gagcctttca tcttccgcaa ccctttggt aaagttccag 240

cctttgaaga tggagacttc aagcttttcg aatcaagagc aatcactcaa tacatagctc 300

atttttactc agacaaagga aaccaacttg tctcccttgg ctccaaggac attgcgggca 360

tagccatggg cattgaaatt gaatcgcatg agtttgaccc agttggttca aaagcttgtt 420

tgggagcaag tcttaaagcc tttgtatggt atgaccacag acaaaaccgt tgttgaagaa 480

gaaaangcta agctagccaa ggtcctcgat ggttacgaa 519

<210> 1101
<211> 431

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-C10

<400> 1101

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tactccatcc gtcggatcca ccaaaccaan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt 180

gggcatttta gggtttctca aatttttgac gctttctctt aaaagggttg acgaaataac 240

cctttaaggg aaaaaacaaa ggttgaggaa gaccaccaag gtgaaaaaag aaagaagaat 300

tcgaacaaca gcagcaacaa gataaagtta cgaatttttc ctcttttgta acctttgttt 360

ctcttcttcc tcttcctcca ttttttttcca ttaaagattc tgcctttggg ttccaatttc 420

gtcnttcctt t 431

<210> 1102
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-B1

<400> 1102

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tccgtgatca ttgcggcacc atgacagaat ctgttgttcg caattttact cgtcacattt 120

tgtctgggct ggcttatttg cacaataaaa agactgtaca tagggatatc aaaggtgcta 180

atctccttgt tgatgcttct ggggttgtca agcttgctga tttcggcatg gctaaacacc 240

ttactggaca aagagctgat ctctcgttaa agggaagccc gtactggatg gcaccagagc 300

tcatgcaagc tgtgatgcaa aaagatagca acccagatct ggcttttgct gttgatatat 360

gggagtttag gatgtacaat cattgagatg ttcactggga agcctccctt ggagtgaatt 420

tgaaagggct gcanctat 438

<210> 1103
<211> 438

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-C7

<400> 1103

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tgtgtcacaa ctccagtttc tttttgtatt ttgttgtttt tttcacaaat tgagattgtt 120

gtttcctata aggttttgtt ttattctatt tatggaagtc tcttgatttc gcttttataa 180

cctcaaaaag catctttctt gatagcacca agtatgattt gatcatcaaa agggtttgga 240

tttgacaggt ctctatttta ggtttgtttt tgggttagaa gttaaaacca anataaaatc 300

ttaacttttg ggaaatggga tctgttaact ggggttttac tcaaatgaag tgttggaatt 360

aanatcctaa atgggttgtt gatcccaaca atccctttgt tggtcccaaa gaattggtga 420

anggtgctca agccaaaa 438

<210> 1104
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-022-Q1-B1-D10

<400> 1104

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gggacgcagc tgtggagttg gtggtcaatg ctggtgatcc aaaagcttct tctttacctc 120

gtaatgattg gtacagacta cgccgtagcc tcgagatact caagtcaact ggatcgcctc 180

cgtcttcctt tcgcattcct tatgattcct ttcgagtaaa tttagttgct cctgatgctg 240

atgacttcct tgaggacggt tcatctgccg atatctctat ccaaaacata gagacagatt 300

tggactatga ctttctttgt tttttcttgt caagcccacg ggttgctctc tacagatcta 360

ttgatttcag atgtgaagac atgctttcaa gaccc 395

<210> 1105
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 1105

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aatccaatcc atcgccaccg ttattcgcca aagtctccgt ctttcgatgc agagcttccg 120

tacaaaccct cgtcgccgtt gagccggagc cagttttcgt ctccgtcaag acttttgcgc 180

cagccaccgt cgctaatttg ggaccagggt ttgatttctt aggatgtgcc gtcgatggtc 240

tcggagacca tgtgactctc cgtgtagatc cctctgtacg agccggtgag gtctcaatct 300

cggagatnac cggaaccaca acaaaactca agcacgaacc ctctccggaa ctgcgccgga 360

atcgctgcta ttgctacgat gaagatgtta gggatcagat tggttggtta ncaataa 417

<210> 1106
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-D2

<400> 1106

ggtgggtcct aagaaggaga gactggacat taaagcagcc ttgtcaaatt cattcgggtt 60

tggtggtcat aactccagca tcatttttgc tccttacaag tgaaagcgaa agcagttgct 120

tgtactccaa acctgattgt ataacttgct gtaagtgttt tacaagaagt ttcccatgtt 180

atgctagtgt tacgtcgagg gaatcaacag agtttgttca actaccaaga gctaagctaa 240

gtttcttagg atcaagatct gatgagccaa agacttggac aggagctaaa acgtgctaga 300

gatatcagag ttgggattcc ccaattaaaa ttccggtttc ctgtgatacc ttccntaatg 360

ggaatccttg tantccttac aattccaatg gttaacatga aatcctcaaa aaaatgccaa 420

atcaaattcc tcaantttta aattt 445

<210> 1107
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-D8

<400> 1107

ttcaaacttg tacggactaa gaccagactc tctctgacgt tgtcagatct gcgacctgct 60

agcgagagga tgcgagagga aactgtggtt tacgagcagg aggagtctgt ttctcacggc 120

gggggcaagc acaggatcct tgcagagctt gcccgcgttg aacaggaagt cgctttcttg 180

gagaaagagt tgaaggaggt cgagaacaca gatattgtat caaccgtgtg tgaggagctg 240

ctatctgtca tcgagaaagg acccgatcct ctgttgccac taaccaatgg gacctttgaa 300

cttaggatgg gaccggtggt ttgaaggacc aaatggagga gaanggtgca gatgcttaat 360

actttgattc gctaagacag aagtaatgtg ttacatatac tantttcctg ccaaggatat 420

canttt 426

<210> 1108
<211> 86
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-E10

<400> 1108

cgcgatctat aactagttga attttggtcg ttacttnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnn 86

<210> 1109
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-E6

<400> 1109

ggtggcactt ttgatgtctc tcttcttacc attgaagagg gtatctttga ggtgaaggca 60

actgctggtg acacccatct tggtggggaa gattttgaca anagaatggt taaccacttt 120

gtccaagagt tcaagaggaa gagtaagaag gatatcaccg gtaacccaag agctcttagg 180

aggttgagaa cttcctgtga gagagcgaag aggactcttt cttccactgc tcagaccacc 240

atcgagattg actctctata cgagggtatc gacttctact ccaccatcac ccgtgctaga 300

tttgaggagc tcaacatgga tccttcaagg aantgttatg ganccanttt gagaaattgt 360

cctccgtgat gcctaagatg ggacaaagan caactgttca atgatgtttg tcccttgntg 420

ggtgggttca acccgtatcc ctaaagggtc a 451

<210> 1110
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-E7

<400> 1110

tcttctcaat aatctccaca tctttcttca ccgttgaatc gattcgacta ttccctgatt 60

cattcgngga tgcntcttca gatttaatgg aagctccagc atatcaaaac ggtcttgatt 120

gctctgtttt agccaaaaac agactcttgt tagcttgtga tccatcagct gttcatatag 180

ctatgactct agatccagct tacttgcgtg gcacggtatc tgcagtacat tccatcctca 240

aacacacttc ttgcccngaa aacatcttct tccacttcat tgcttcgggt anaagtcagg 300

gttcctcgcc aagaccccta tcctctgttt tccttctttg agttcaaagt ctataccttt 360

gaaagaancc acggtcaaga atcctaatcc tcttcttccn 400

<210> 1111
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-F1

<400> 1111

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cagaggtttc tacttattat ttccacttct catctctttc aatcgcaatc tgagttctgg 120

ctaaagattt tgtcttgaag gtgagattca ttgttccgaa tagagtgaga aaaagactta 180

taagattgaa aaagcaagat gcggattttg tgcgatgctt gcgagaacgc agccgcaatc 240

atcttttgcg ccgccgatga agctgccctt tgtcgcccct gcgatgaaaa agttcatatg 300

tgcaacaagc tagctagtcc ggcaagtang tgttggttta nctgaaccaa gcaatgcccc 360

aagctgtgat atatgcgaaa atgcaacctg ccttcnttta ctgtgagata gacggtaatt 420

ctctt 425

<210> 1112
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-F2

<400> 1112

gaggtaacga aaggtttaat cagaaacttg gccttgttcc aagttcgtct tcctcctctc 60

gtagcagcag taatggctcc ttcaagcgtc gttagggttt actctaccgc tacctctcct 120

tctccttctg aaatttccgt caagaaagtt ggtactcata atggaagctt tcactgcgac 180

gaagctctcg gctgtttcat gattcgcctc gtcgataaat tctccggcgc tgatatcgtc 240

cgttctcgtg accctaagat attggcagaa cttgatgcag tgcttgatgt tggaggtgtt 300

tatgatccgg agcatgaccg ttatgatcat caccaagaaa ggttttgaag aagtttttgg 360

gacatggctt caacactaag ctcaagtagt gctggtcctg tttacaagca ttttggnaag 420

gagatatagc taaaggaact taatgt 446

<210> 1113
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-G6

<400> 1113

ccacattttc aagaaataag gaggcaaaaa tgttcatata tgaattggaa ttatttgttt 60

tcttattagg cctatcctga agccaaagga aatgagatcg gaattcctcg gggaattcca 120

attccacatt ttcaagaaat aaggaggcan aaatgttcat atatgaattg gnattatttg 180

ttttcttatt aggcctatcc tgaagccaan ggaaatgaga tcggaattcc tcggggaatt 240

ccaattccac attttcaaga aataaggagg caanaatgtt catatatgaa ttggaattat 300

ttgttttctt attangccta tcctgaagcc aaaggaaatg agatcggaat tcctcggggg 360

taccgagctc gaattcccta tantgagtcg tataaattcc gtaatc 406

<210> 1114
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-G9

<400> 1114

caacacanat atggatcacg acaagtctac ttcttgttgc tgcgttcttg atgcttccac 60

ttatgttggt ttctggattc tcaagaaatt gcttagcaga ggatactctg ttcacgcagc 120

gattcgtaga aacggggaga gtgaaattga ggagatgatc agagagatgg aaacaacaga 180

agagagatta gtggtgtacg atgtanatgt gttggnttat caaagcatac ttgtctctct 240

caagacatgt aacgttgtct tctgttgcnt anacagccct gaagggtacn atgagaaagg 300

aggtggattt tggaantgan aaggagcnga ttaaatggtg ggtgggaacc gtttggnaag 360

aaacaagaga gtatanaana aagaattgnn ttttccatcc ttcaattanc aagcnttcaa 420

ntttggagaa gacaacattg ggaac 445

<210> 1115
<211> 335
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-H1

<400> 1115

ttaaatcatt attgtccaaa tacgacaact tactcaagat tcagcactta ctccaccaat 60

ctcagaaccc ttttgtcctc ttttgcttcc cgcaacgcct cttactccac cggattccag 120

aacgtcacgg tgggacaaac ccccgacctg gtcaccggac ttttcctctg ccgcggagac 180

ctctcgccgg aagtttgcag taactgcgtt gccttctccg ttgacgaagc gttaactagg 240

tgtccaagtc aagagagaag ctgtgttcta attacgagga gtgtatactc aagatactcc 300

tgacaaagat aatctancgg acggggcatt aaaaa 335

<210> 1116
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-021-Q1-B1-G5

<400> 1116

aattatttag tcagccatag aagactaaga cgtcgcatgc acgcgtacgt aagctcggaa 60

ttcggctcga ggtttccata atgatagtct gattggttct ggtgggtttg gagatgttta 120

caaagcgatt ttgaaagatg gaagcgcggt ggctatcaag aaactgattc atgttagcgg 180

tcaaggtgat agagagttca tggcggagat ggaaaccatt gggaagatca aacatcgaaa 240

tcttgtgcct cttcttggtt attgcaaagt tggagacgag cggcttcttg tgtatgagtt 300

tatgaagtat ggaagtttag aagatgtttt gcacgacccc aagaaagctg gggtgaaact 360

aaactggtcc acacggcgga agattgcgat aggatcagct agagggcttg ctttccttca 420

ccacaactgc agtccgcata tcatccacag agacatgaaa tccaataatg tgttgcctga 480

tgaaa 485

<210> 1117
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-H10

<400> 1117

agagctaana catcgcatgc acgcgtacgt aagctcggaa ttcggctcga gcgaagatat 60

ctgggaaagg aaagagacct ggtaaaggtg gaaaccgttt ctggaagaac attggtttgg 120

gtttcaagac tcctcgtgaa gccattgatg gagcttacat tgacagtaaa tgtccattca 180

ctggaaccgt ttctatcaga ggacgtatct tagctggtac ttgccacagt gccaagatgc 240

agagaaccat cattgttcgt aggaattacc ttcactttgt gaagaagtat caacgatatg 300

agaagagaca ttccaacatc cctgcccatg tctcaccgtg tttccgtgtc aaggaaggtg 360

accaagtcat cattgggcca atgcangccg ttgtcnaaga cggttangtt caatgtgctg 420

aaaggtgatt ccaaccgggt gcatctgncc tttggtaaaa 460

<210> 1118
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-H12

<400> 1118

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aattcggctc gagcattgac gcaggtgaag aatctacaga agataaacgc nanggaatca 120

gatttaggaa tatctgatga agcttcatgg cacgctaagt acaaaaactc tgcatatgtc 180

tacgtcggag gcataccgtt cgatctcacc gaagatatgg tgaaattgtt gatgtcaatc 240

ttattcgaga caagggaacg ggtaaatcta aaggttttgc ttttcttgct tatgaagatc 300

atgagaagta ccattcttgc tgttgataat ctgaatggac ctcttgtgtt gggacggacc 360

attaatgtgg gancantgtg ggggcataca acaagcacna aganggagga tgaagaaaac 420

ccgaccccag aatagaaaag gcccttggtt tancaaaanc tttcaaanaa ggaaaatttn 480

acccttggtg aatccttcaa attttccaca atgaaaaa 518

<210> 1119
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-H3

<400> 1119

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attcggctcg agacctccca gacctcggtg acgatcttca ccgaggattc atctgggagt 120

ttaatttccg tgacttcgac gtggcgcgtg acgcacacgc gcctgattcg atcgagttgc 180

ttcgtcggca aggtatcgat tttgagcgga attgtcgcga cggtgttgag tcggagaggt 240

ttgcggagct gatgatgtcg tcggggcttg tttgtaatga ggaagtgagc tgggtgacgt 300

ttcatagcgc gtatgatttc ggttacttga tgaagattct cacgcgccga gaattgcccg 360

gcgcgttggg ggagtttaag cgcgtgatga gagtgttgtt tggggagcgt gtgtatgatg 420

tgaagcatat gatgaagttt tgtgaaanga gattgtttgg tggtttggga ccgggttgca 480

aaggaccc 488

<210> 1120
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-021-Q1-B1-H4

<400> 1120

gagaaaaatt ctgctttaga aaaaaaaaag aagcaaacct cactgttctt tcatcgtttc 60

cgagagagga gagacggaca tggaaggagg aactgcgcac tacagccctc gaactgtcga 120

agaagtcttt cgagatttta agggccgtcg agctggcatc atccaagctc tcaccactga 180

tgtggaagat tttttccagc aatgcgaccc tgagaagcag aatctctgct tgtatggatt 240

cccaaatgaa gtgtgggaag ttaacttacc agctgaagaa gtgcctcctg agcttcccga 300

acctgcactc ggcattaact ttgccaagag atgggatgca ggaaagaaac tggctttctc 360

tcgttgctgt ccacagtgat gcgtggttac tttctgtgtc ttttactttg gttcaagatt 420

t 421

<210> 1121
<211> 344
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-H5

<400> 1121

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cgccggtggt gtgaaatgca cggcgtttga aagcataaag cctttgatcg aactctccgg 120

cggtgagtgg tggcaacagc ctgggattca gagcatgttc gagatcaccg attgcgttaa 180

agacgggaat ttcatgagta cggttggttg gccaacgctt ggtcacggca ttaagctttt 240

gcttgaatct cttggtggca aagtctgtag cttggagaag aagcaagctt ctgtgctttt 300

cctcattggg gactatgtan aagattatgg gatnaatgta ccgt 344

<210> 1122
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-021-Q1-B1-H9

<400> 1122

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnt gttcagaaga acaaacatgg ttcctccttc ttcgaacaag 180

aagattccgt cagttctcgt ttcaaccgtt tgtttgatcg ccagaagcca attcatcatg 240

tcttaggcgg tggcaaatct gctgatgtgt tgttatggag gaacaaagaa agattccctg 300

caagtggttt tgatggggaa gcctaaccgc aattttgggg tggctttttg aatnggttaa 360

attttcaatt tcctgtcccc ccggtttgcc aaagcccctc cttggcnttg ggaatgaatt 420

gcacaaattt cgttttggtc c 441

<210> 1123
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-A10

<400> 1123

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nnnnnntgtt gtgtttcaga tctcaaagag tgtttatact tgtgtctctg tgtttactct 120

cttcgtttct tgtggtcgtc actggaacaa catcgattac tggggttggt aacgaagaag 180

aaagaggtgt agaagaagaa tggagaacaa gtgtaataga aagagtaatt gcagaggaaa 240

gtggagagaa ctcatctctg attttagctg caaagagaac aagaagaaaa gatcctgctg 300

ataatttcaa actctacact ggtggatgga atataagcaa ttcccattat ttgacttctg 360

ttggttatac agcggcgcct ttcattataa tagcactagt ctggtttgtg ttctttgggc 420

tatcattgtc tctgatt 437

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<210> 1124
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-A11

<400> 1124

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cgaagacgcg tcaaaggtac tgaaatgtgt ctattgcttc ttgcttctgg tttatgggtc 120

cctgcgacat tttgagagtg ttgtttggtt taggtgtctg gtgtattgct tatataactg 180

ttgcaatctt tgcgtctttt agaatctttc actgtatttg ttaatttcaa gagcttttgt 240

ggagaggttc tgcttgcttg ctacaatggg ttacgcccag ctagttattg gtccagcagg 300

cagtggaaag tcaacttatt gctcgtcttt gtatgaacat tgtgaaacta tcggtcgaac 360

aatgcatgtt gttaancttg atcctgctgc ggagatcttc aactatcctg tggctaagga 420

tatcanagaa ctta 434

<210> 1125
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-A12

<400> 1125

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tgatcccgat cgaagctact cctgagaatt tcgcagacta tggtcaagtc atcgaagcct 120

ctcgtgacgg tgcaggtttc ggtcccaacg acgctcaact ggatctctcc agaggaatcc 180

cacggttcta tataatgcgg atcagagata cacccttga cttttccgta ctcactcacc 240

acgcgagcgt gacacagtgt ctaggatcaa taggaggtca tgtttggtac cttggagtgg 300

ctaaaccgac acttattgaa gatggtgatg atggaaagat ggtagataaa ttgaaatcaa 360

ggtctggtca cttgtacgct cctcctgcgg ttgaagaaaa tcgcgtcntc aaggt 415

<210> 1126
<211> 378

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-022-Q1-B1-A7

<400> 1126

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attgaagtca tgtgtgagcg tgttgagttc ttacagaagc tagggttaac gattgacnat 120

atnaatgagt atcctttgat gttangttgt aatgtgcgta agaatttgat tcctgtcntg 180

gcttacttag ngaaaattgg aatctcgaga tcgaaattag gatantttgt taagaactat 240

cctcaggttc tacacgccag tgttggntgt tgaaccttgc tcctgtggtt aagtttcctn 300

agangacncg atntggagaa ncaagatttg gggtaaagtn ttgatgantt atcctgaacc 360

tgccaagggt ttaaancc 378

<210> 1127
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-022-Q1-B1-A8

<400> 1127

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tcccagtctc ctccttcagt agaaactcca cagaacttca ttgatactga tgatctattg 120

ggtctgcatg atgatacacc tgatccgtta gcaatcctgg accaaaatgc actagctttg 180

gccttagttt ccaatgatgt tgattcttcg ccgtttagtt ttgggcaagc aagagatttg 240

gatccgtcag gatgggagct tgcgttggtc acaacaccta gcaatgatat atctgcagcc 300

acagagagac agctggcggg tgggattaga cacgctcaac ctgaacagtc tatatgacga 360

tggagccttg agagcagccc aacagcctgc ctaagggcgt ccaacttcaa tcccgtttga 420

ggtccaaaga cctgttt 437

<210> 1128
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-H11

<400> 1128

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acacttgttt taaagatagg atcacaagaa acgcttaana ctcgcccttc ttgagattga 120

caaaatgttt tttaacagtt tgtcaccggt aaaaagaaag gagagcctcc gattttctta 180

ctccccaata cattcttcac caagaagttt ccatctcgac tcatctttct tgctctgttt 240

ctccaacttc tccttaaggg ttcctgcata anaggggacc cgaacaattg attaagaaac 300

ctgcgcaaaa cacgttgaaa tgcagttcaa gganttgcca cattctcttg caatgcacgc 360

aacctcctgg naactcttag cttaaagcct gcnaaaatgc cg 402

<210> 1129
<211> 380
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-H5

<400> 1129

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ncaaaggnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnc aagtaaaaac aaatagaacc attaataata cagtactcac 180

actcacaacg acaacgtacg ttctcgttta ttantcnatc canatatata cgccaaagta 240

aatactaaca aaacgacatc gtcccattan ccgcaagcaa ttaagaactt tgtttcctcn 300

naaggggcac ttgcggctcc accgtggggt tggtgagggc tagccgtaac cacngggcan 360

tttgtccgta attttccgna 380

<210> 1130
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-A11

<400> 1130

ggcctacgta cnctcggaat tcggctcgag ctcgcggacg tcaagaccaa ggacgacaag 60

gccgtcacct gcctcacggc caccgtgcag ttcagccgcg acggctccgt caatgttgtg 120

gacaacttca aggccgacta caagcagagc ctcaagacca agtacaaaat cgacatctag 180

attggctgga gtagtagcag cagcacgagc ggctgaacag ttgccgcgga tatcgcgaat 240

ggagatgttg tcgacggcgt cctttttca cttctctcca aagcatgacc tgagcgttat 300

cgtttgagca ttttactttc gctgtcgctt acgcagatag aggtggatgt gcagaatgag 360

aggtccgatg gcttgtagtt tacggcgtaa tgtctcatgt ttccttgtcc aaatatttaa 420

gtcattcggc gtctctgggg tatcccgtcc a 451

<210> 1131
<211> 162
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-G5

<400> 1131

ttttttttt ttttttagcc caaaacagaa tttcattttt atttcttttt cgaaaatgga 60

agaaattctc actggtgaaa ttcggtgaan gnaaatgnna caacagttac agagaaacaa 120

agaacgtacg agagaaaaaa acatatcaga gagctgaagc tt 162

<210> 1132
<211> 377
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-020-Q1-B1-A12

<400> 1132

ttttctagtg atcttctttt tgattgagaa catgagtgat caagaaggag actgggattt 60

ttacctcaga atcctaagca acagcgcgcg ggattctacg gatcctgctt ctgatccatc 120

tatactacaa tcagtgaaga agctgcatgg gttctgtaaa atggagaaat cagatgatct 180

tgtggctaga atttatccac aattcaataa agtcttccat cgttcggttg cttcactatc 240

tcagtccgag tcaggggcgt ccaaaggcct tctcttgcta gccattcttc agtttttttct 300

tgattttggg gatatggttc tgcacgattc tgacccaagt ttgaggacat tcttccgctc 360

atgtcttaac cgtgagt 377

<210> 1133
<211> 522
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-A3

<400> 1133

atgaattttg tgatncccta ggccactann aacgtcaana tgcacgcgta cgtaagctcg 60

gaattcggct cgagccataa cagacaccac acatgtgaaa tctgagactg gctctccaag 120

acattcatcc tctgctaaaa tggatgaaac taatggccgg gaggaaaaat cagagaagga 180

actgaatgat gatggtgaat atttgattag accttatctt gagcatcttg aaaagattcg 240

gttcagatac aactgtgaga gagttgttga tctcgacaag catgatggaa tcttcttaat 300

aggggaattc tgtctgtatg tgatagaaaa cttttacatt gacgaagatg ggtgtatttg 360

tgagaaggaa tgcnaanatt aagttacccg ttaattgatn aaacnttggg tgtgaaaaaa 420

natgtctctg ggnaactccg gnttccattc caagtttaac acannatggg cctacaacaa 480

ttgaaaacaa ggaccanttg ggggaaaaan catgggcata tg 522

<210> 1134
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-A4

<400> 1134

aggtttgatt gaacaagctt atgacaatcc tcatgaagct ctatcacgaa taaaacgtca 60

tcttctcacc caacgaggct ttaaagaggt tggcatagaa tttatggatc tttatagcta 120

cttgattcca gtttatgaaa tagagcctct agagaaaatt accgatgcat atcttgatca 180

atacttgtgg tacgaaggtg acaagcgtca cttgtttcca aactggatta agccagcaga 240

ctcagagccg cccccacttc tggtttataa atggtgtcaa ggtatcaaca atttgcaagg 300

catatgggac acaggtgatg ggcaatgttt tggtgatgcc ccaaactaag ttccaaaaag 360

ttctttgaga aaaatcnaat tgacaatgtt gaacaagctt cctcnntttg gttcctgacc 420

acatatttca aactaagtgt cccgccaa 448

<210> 1135
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-A7

<400> 1135

aatacggtgt atgaatccga attacacaga gttcaagttt cctcaaatca aagctcaccc 60

gtggcacaag attttccaca agcgaatgcc acctgaagca gtagacctcg tctcaagact 120

ccttcagtac tcaccaaacc ttcgttgcac tgcattggaa gcttgtgcac acccccttctt 180

tgatgactta cgggatccaa atgtttcact gccaaatgga agagcactgc ctccattgtt 240

taacttcact gcccaagaac ttgcgggtgc atcaacagag ctgcgacagc gtctaattcc 300

aagcacattg ccagggaacg ggaagtaant ccttaaggat tatttatnnc gtgtccaaaa 360

tccaagcttt cctnctcncc ctcgaattta cggcagtgtt taaac 405

<210> 1136
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-A9

<400> 1136

tgtcttaaga atcaaaaggt tctgcttgtg gcagacaacg ttactaaggt taaacagtta 60

gaagctcttg caggggattt cagcagtttt ggtcctggga gtgttgttat tatcactaca 120

gacaacaagg ggttgttgaa ttcttatggt ataacagatg tctacgaagt tgagcatttg 180

aagttttgtg gaatcttacg atcattgggc tttaaaaaga gagctgctgc gttccagcgg 240

gctttgtgta gagcaaagag ttttgccacg gaatgttttt gttgtcaaag tagtagtata 300

tccggttatg ggaaagtgac agatttagtt taattaagtt gaatcccttа ttaagtcata 360

tgcattaagt taagtaaact taataanttg tgtgg 395

<210> 1137
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-B2

<400> 1137

gtttgtaccc tgaggtggac ccgtccttaa acccggacca cgtccctcac atgctacaca 60

agtgtcctga ctcgatccct gacccaaagg cggtccagta cgtgcgtaac gaccgtggca 120

cccccatggt gctagacaac aattactacc gtaacatcct agacaacaag ggtttgctcc 180

ttgtggacca tcagctcgca cacgacaaac gaaccagacc aatcgttaag aagatggcta 240

aggaccaggc ctacttcttc aaggagttca ctaaggcaat ccaagattct aaccgagaaa 300

aaacccttg actgggtcct aaagggttaa gattaaggna ncaatgttat ctcccaaaca 360

agaancaatt gaagttggna aaagttanaa anaaangggc ncnggngtgt ttaanttccc 420

ggcntgggac naaacaaaaa ttaa 444

<210> 1138
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-B3

<400> 1138

gagagataat ggatctcatg aacgacaaca gcaacaattc acaagacggc gatcatcaga 60

actaccgtgt cggcgataat ggattggaat cgaagaagga agctatcttc cctagctatg 120

atttccaacc tatgcgccct aatgcctccg ccggattgtc tcaccacgct ttagatctcg 180

ccggatctgt taattccacg gctgctaggg tttgggatgc gtctgatcct aaaccggttt 240

cagcttcttc cgcaagaagt tatggctcta tggactctct cgaaccttca aagttgtttg 300

ctgagaagga tcgaaattcc cccgagtcag cgattatatc tgcgattgat nggacaatga 360

aggccatgct gataaattgt tacatgttat gggaaggggt caatgcactc taacgcaact 420

ggagaacaan aacccgagat ttcg 444

<210> 1139
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-B8

<400> 1139

ggagctagaa agtttgcatt ggtaggaatt ggagccattg gatgtagtcc gaatgcgctc 60

gcacagggca gccaagacgg aacaacttgt gtggagcgta tcaactcggc caaccgaatc 120

ttcaacaaca ggctcatatc tatggtccaa caactaaaca acgctcattc cgatgctagt 180

ttcacttaca tcaatgctta tggcgctttt caggatataa tcgccaatcc ctctgcttat 240

gggtttacga atacgaacac tgcgtgtttg cggaattgga aggaacngga ggtcagctaa 300

catgttaacc gggaagaacc cccgttgctt gaaccgaaat aattactttt tttgggatgc 360

aattcaancc tttcggntgc tgcaaacacg ggcaattgca aaaagatttt acaatgcaca 420

aaagn 425

<210> 1140
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-C1

<400> 1140

tcgctgagtt ctggtttctt tgattttctt agttacagaa cacaacttac tttgtttttt 60

ggtttgggct gtgttgaaaa ttgagcttan ggttttatgt aacagttgtc ttagctcata 120

gttacggtta aaaagctctc aactttgtct ccctaatgat aattgaattc aatcttgttt 180

atgatttttc tctattgggt cgatctttan ctgaatctat ctacataaag atncaaccgt 240

tttaagaatc ttagggttcc taacatcttg ttcaaaacta agattctgtt ttttggngtg 300

gganatnatt taanatatgg nanctactca agaanacata tnantcaaag aaggatctca 360

aaaggtttac caacaacaat cttcaagtcc aaacaaangg gacccttccg gncaaacatt 420

tgantcccta acg 433

<210> 1141
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-C11

<400> 1141

tctctcgctg gatttcaaca ttcttccact catcgcttct ctttaccaaa tcaaactcaa 60

cacttcactc aactcttatc ggaccttcca aactatatcc ttcaatggat ctatggactc 120

ttcaattaaa agacgtcacg atccgaaacc ctatcttctc atcatcgatc cctgagaaat 180

catcgtcgtt ttctaggaaa ctttgtgaat tggagtttag gtttctcaat cgtaaggttt 240

ctgcttctcc gtatcgttcc ttggttgttc gagctacctc gaagaagagt aacgangatt 300

cttcttctcc tgggagatgc ttctcaggaa aacaaacctt ctaacggnaa caagtccggc 360

gattccgcgg ctccgaaatc gttcggttta aaaaacggat tgg 403

<210> 1142
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-C2

<400> 1142

gaggggtttt ctgcatatag atgaatatcc tcctgatgct aatcaaggat tcgacattcc 60

atcggctttg ataagcttcc ccgatcatca tgctanntna gatttccaag aagagctcan 120

caactcgccc ttattatcaa gtttaaagga aaaatcctta gnacgctctt acacagaagt 180

attgctcgta cctttgacaa cccctgattt tagcatgcct tacaacgtaa tcacgatcac 240

atgcaccatc ttcgcattgt attttggatc antgctaaat gttctacgta gacgaattgg 300

tgaanangaa aaggtttctc aaaagcaaag gaaanaaaac aaggtgggct taancantta 360

taaccaaaaa cccnagccaa gatttaaang ganaacaatt tgaggcccca tnatcatcag 420

aagctgaaat cttcgggccn tgtccaataa a 451

<210> 1143
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-020-Q1-B1-C4

<400> 1143

aaagactcga gttgatatgt ctagtactaa agatatgtca actgtccaaa acgcaactcc 60

ttttaacggc gttgcccnat ccaccaccgt gcgagttaca atcgtccaat cctccaccgt 120

ctataacgat actcctgcca ctataggaca aagcggagaa gtatattgtg gaggcggcaa 180

gcaaggganc anagctagtg ttgttcccgg aggggtttat cggtggctat cctcnaggtt 240

ttaggttcgg tttancggtt ggcgttcata aacgaagaaa ggcgtgatga atttcggaag 300

tnccatgcct tctgctatca atgtncctgg nccctgnant aacaagattt gccgaacttg 360

gcnaggaaaa aaccaagttt tccttggaaa attggaagcc atntgagaaa ggnaagggta 420

aaccctcnaa ttgcacaa 438

<210> 1144
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-D3

<400> 1144

ttttttttttt tttttcatga gacaaccatt tttatagaca tatttgtctg atgttgataa 60

caagaaagtt gagaacaaaa caaatattaa nactcaggga caagtattct agtcatcatc 120

atatcacagt gacacaacat acacacttca gaacaaaggg taccattaaa gatcacaaaa 180

tctaataaaa acagaaccaa cagtacgtct caggtatcca aagcgagatt ttcagcttgc 240

ctctcaagcc gaagagccac aacaggaaat gtgttgacga tcattactcg tatttctctt 300

gagaatctcc aaatattaag ttcgtcttcc gcccttcctg tatgtactcc gtatttatag 360

gcaaacgtta catagcctgg ctcaatggtg aacaaaaatt gagttcccac cc 412

<210> 1145

<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-D8

<400> 1145

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn naacatttga taattataaa tatacatcaa 60

tcaaccttgt cacacacgct tctanttacg cgntcantcc cggttaacac tttgtaagac 120

gacaatttta caaacgcgga agagaaggcg ttgaagaaac ggtcttgatc agctctcgag 180

ccgaattccg agcttacgta cgcgtgcatg cgacgtcata gctcttctat antgtcacct 240

aaattcaatt cactggcccg tcgttttaca acgtcgttga ctggggaaaa cctggcggta 300

ccaannttaa atccgcnttg catcacaatc ccccttttcg ncnagcntgg ngtaataagc 360

naaatagggc ccgcaaccgg atnggccctt cccnaaaaag ttgcgcaacc tgaaatgggg 420

n 421

<210> 1146
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-D11

<400> 1146

ttacgcctgc cgtaccactt taacgccgcc aggtaccggg tccaagaatt aattcccngg 60

tcgacgagct cactagtcgg cggccgccct ttttttttt ttttgattaa acagtctatt 120

ccttctcgaa tataacagtt taagggtttt ttctttgtga ttgcancact aagngccctg 180

tggcacannn agaaggacaa aaaagacttt aagagccaaa agaaaaaacc aattcaagaa 240

gaaaataatt cattacaaaa ccataataaa catccatttt ctccatcttt tttttccagg 300

atttaatgat gaaaaccccc acagaagaca aggttgcaat canactctgt gacactatta 360

catgacagag aaagaaacat ancttcaag aatcaaagca gctcananga aagcgtcctt 420

cccaagtaat ttcaccacat ctagctgaat tgtttaacct gggccacatc aatgggattt 480

taattgtcca tgttt 495

<210> 1147
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-D9

<400> 1147

ttttttttt ttttttaaga acaagtttct tgattacatt aacttttag gtttcgcata 60

tagcaaagta ttttacacac atataattaa ttactctcng agcatttgta atcattaact 120

tgaacaagtg aaattcaaga agatgattcc ttgaactcct gcaactgttt gaagttcatc 180

catggcttca cccacacttt ggcttcaaaa ttcttagtct gatcaccttc ttttgcttct 240

agggttaagt ggtacatcgt tcctgcaact acctgctccc ttgctttgac aatcctcctg 300

aactcaagaa ntttggtccg ttgtttgtta angtccctga atgggaaatc nanccgagac 360

tcncnattct ctccaactgg tcctganttc ctccggaaga 400

<210> 1148
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-E3

<400> 1148

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnacag ccgaagaagn agagtngaag angnatgttt aagattcanc 120

cttacacaag tgtagcanaa gcaaaaaaga aaggctatca acgaatggga actttgatcc 180

aaccattggc aaaagcaatg gctaagatga cgaatggcgt tgacataccg aagatgataa 240

tgtaaggaag aggcgtcttc ancggattct ctccttctct ttctccaacg ctttgccaat 300

acctataaag ttgtaatgca aatctcatcc ataaccattt cgtcagtcac aatattgcat 360

gtttangaaa aatgtgcatn caagagttta aagatccttt gacaactta 409

<210> 1149
<211> 411
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-E5

<400> 1149

nnnnnnnnnn nnnnnnnnnn nnnnnnaaag atgattanca tatanaaata atatcacaag 60

gatataatgt tccaatttat tgaattaaaa gnactgngaa aataagactg ggaatgtttt 120

aaacgatccg acacgagaat aattttagtt tcatattaag acaatcatca cttgaggttc 180

cttctagtaa acgataactg atggagttta gagacgagat ataagaagag gtacagaggc 240

aggtccttcc tcgcccatca caggctggaa cagatccaac tcaccatacc gctccagaac 300

tccgcatcct acaatcttca nctgccatca atccaagttg aataancgcc gtgaacccga 360

accccgggaa actcnagctc gtcgcttcaa ccgggaaaag aataanttaa c 411

<210> 1150
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-E8

<400> 1150

cgnncaccga aagaatatag atcccattgc ccttggcatc aggaaangcc taanaagaaa 60

acaaataatt ccaattcata tatgaacatt tttgcctcct tatttcttga aaatgtggaa 120

ttggaattcc ccgaggaatt ccgatctcat ttcggttggn gtcaggatag gcctaataag 180

aaaacaaata attccaattc atatatgaac atttttgcct ccttatttct tgaaaatgtg 240

gaattggaat tccccgagga attccgatct catttccttt ggnttcagga taggcctaat 300

aagaaaacaa ataattccaa ttcatatatg aacatttttg cctccttatt tcttgaaaat 360

gtggaattgg aattccccga ggggatcctc tagagtcgac ctgcaggcat gcaagcttgt 420

ctctcncttt agtgagggtt tagcttggca ctgggccgtc gttttacaa 469

<210> 1151
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-E9

<400> 1151

ttttttttttt ttttttaaaa tatgcataca actttattgt aagttttgta actcttccat 60

aaaaattaaa aggcctagat acanaagata taggcaangt ttcttttgcc ttctcataca 120

agaaaataca atataagcaa aggcccatct gcctatataa aaccctaact ctcgtaaata 180

aaactctgtt tttttcacct tctcgtttca ataaaatcca acacacacca nagacagttt 240

aaggaaaata naagaagacc acacgatgca ttttcttgta atangattgg gtgantcatc 300

tatggtttac gaacgcttat aaagcttgac atcatcgatc acaggcccac acaatgacga 360

gaaatcatcg ctcctcatgg catanaaagt gctgtagaac a 401

<210> 1152
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-F1

<400> 1152

ttttttttttt ttttttaattt cactccttac tccttcattg agagttggac acaaaatcag 60

tatgacaaga aattgaggat gatctcttaa gaaaaangcn aanggtaaat acacatttct 120

cttgttgtga cacaaaaagg aaagagaana cctcatcaag ganantgaga agatgtactc 180

aagattaaac tcataattaa nccacacttg aagcaattgg aactacgggt gctactcatt 240

cttaagcttc ctcngaccct tccgtctcat cttcatcgtc ancttcttcc tccaccgcat 300

caacancgta cctcgcattc aagaactcca caagccgcag gagtcagaac aagcttatca 360

gcgttcaaaa tatcanacaa gattcaattg tccctaaggc gttaacatcc cnaaagg 417

<210> 1153
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-F4

<400> 1153

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngagaaagag tagtttggtg 60

gtattgatgc tctcttttga atgttttgnn tgaanngcct tgggaaagaa aaaaagaagc 120

anatatgaag atttcacaat gcatcaaaag ctttttatct acattatata attactccct 180

canaagcttc cttagtagac ttcaanattc cactgttnac tcctcttcaa ttgcttcttg 240

tactccaacc aatcgatccc atctttagca gcaancgaga ccataangtc atcgataccc 300

ttcnccatac ccttaagacc acacatgtaa acaaaggtgt tgtctttctt cagcaactcc 360

cacagctctt ctgcaanact ccgccattcc tggccgaatg tacattttcc 410

<210> 1154
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-F5

<400> 1154

ttttttttt ttttcaatta aaactggaac ctttaaacat tcattgatta ctcatatata 60

catgatacat acaaagtcac cagcttcnng ttgtcntccc cggtttagcc atctattaag 120

ccagctacat gattcatatc aagaccaatg cgggattaag gatcangttt accggcgatt 180

gcaacatcat cttcatcatc accatccgag gcatattcat cttcactcat ttcatcatca 240

ctagacattt cctcagtatc cgcccttggc tttgcgtant tctcacaata ctctttaact 300

ctctgttcat aggtangacg atcacgcatc atcaatgcag ctgcttcacc attcaagggg 360

atctgacgga ttcggataca gaagaanttg cgggaagaaa tgt 403

<210> 1155
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-F7

<400> 1155

ttttttttt ttttttaaaa cttcaatctc tagttaaaat attaaggcca aacatcaaat 60

gtcatacaaa tcatagtttt tatanatatg ngttccngng caaatttatc gatatttccg 120

gttcaacatg aaccgttgag taagcaaaac aaacctagta ctcaaaccca agaaagaaaa 180

cccctcaaca cacccacaaa aagtagtatt aagaaagcaa ccaatcttct gaaaaaccgg 240

ttatagatta nacggttgta ntagatttcc ggacagtgta acggtaagca gcaactttct 300

tcttgcgaga ganagtattg tcaacagaga ngaatgaact tcccancttc nacngtanng 360

aaagattgca aacagcntca accgtagcct ttnacctcct ccggtt 406

<210> 1156
<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-F8

<400> 1156

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aattacaata atcaattgca atcancaggn ngntgaanaa caatcccaat agtgtaataa 120

ttaatcaaga aaactattgg aaatttaatc tatttttatt tatttctaac tactagcgtt 180

cattcaagaa ggcttggact tgacttagct agaggtagcg tttgagagca acagcttagc 240

tcccttgaca agctcttcct tgatcatgaa cagaaccgca gcanctaaaa cgctctgcac 300

aatctttgtg ctcatccctt tataaaaacc ccgtaaagcc ttcatatcga atcatttcag 360

aatcgcgtcc aangttcctt tgt 383

<210> 1157
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-F9

<400> 1157

ttttttttt ttttttcagt attactcatc tcatttcaaa agcattagag attaagaaaa 60

tcatatttat ataaaanacc acangggctt atacgaagnn ccttagaaat aaaacaatgg 120

ccatcttacg gcttacgagc actgaggagc ttaacatcat cgatcacggg cccacacagt 180

gatgagaaat catcgcttct catcgagtaa aatgtgctgt aaaacataac tcttgtgcgg 240

gtcgaaaccg ccacaaaccg tanagaangc gcgtttgnac ctccctttg ctcgagaact 300

catnagggta cntttanaag tgtcttttcc gcaaaatgcn tcgaccacaa ncgatccttt 360

ggnaagcatt gttagcatct ccaaacggca aagnaaaag 399

<210> 1158
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-G1

<400> 1158

ttttttttt ttttttttt tgatcaaaca gacaaaagag tgatagaata atcacattag 60

gccattaaaa agcaaagtgc cttgtctctt caaaggngna gggngntgtt tcttcaaagg 120

caaatttgca aanctcatat cgagtaggag ttttaagaac aatgactaac aataacaaaa 180

agaaaaaana gttttggaag agttatggca atacacaaga gttctcntcc ctctactgta 240

atgactttta aagagagatt tgtgaagaca aaacananga tgagtcatga tggggttggt 300

tttcggtaaa tgtttgagtt gttgtgcaac nccaactaca caggtgtagt nnatgtcctg 360

ntggtancaa agntccangc cccnttannn ttgngacgga ttcaactcga ancgg 415

<210> 1159
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-G4

<400> 1159

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnagtcataa taaagtctga aaagaattat aaccagggta actgttatta taacccgggt 120

gatagtaact agacaaatgt ataactgtac aacatttgtc gtttttggta tcatcgatag 180

ttttcgtagc ttcttgtgac gttagattta cagagtctgg ttgaagatag catcttgagc 240

ccctcagcgg tggatacgca tcatgactgg aacaaggtta tagtggctat atgaccgttc 300

ttcatcacct caaaagcaac attctgatag ccatacacat atgtagatcc aaaagggttg 360

ctcgttgaac cttgcgtctg aataactgct gggccanaat ccccgaagt 409

<210> 1160
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-F3

<400> 1160

cgagttttct tcttcttctt cctcaggaac ttaagtttct gagtccatga agatgccagt 60

ggcattggtc tggctactgg cattcactat tctactgatc agtggggaag gcaataatgc 120

catctgcaag gagaatttta agttagaccc tagacctcat agtgtttcga tcctcgagtt 180

tggagcggtt ggtgatggga agacgctcaa cactattgct ttccagaacg ctgttttcta 240

tctcaagtct tttgcggata aaggcggtgc tcagctttat gttccaccag ggaaatggct 300

caccggaagc ttcaatctca caagccatct cactctcctc ctgggagaaa ggagcaacaa 360

ttcctgcatc aaccgggatn cgtcgcantg ggaacttggc aatcctctaa cgt 413

<210> 1161
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-F5

<400> 1161

ctcgagaaac catgtcttcg ccgagcaagc gtagagaaat ggatttgatg aaactgatga 60

tgagtgacta caaggtggag atgatcaatg atggcatgca agagttcttt gtcgaattca 120

gtggacccaa agacagtata tatgagggag gtgtgtggaa gataagagtt gaacttcctg 180

atgcttatcc ttataaatct ccatctgttg gtttcattac caaaatatac caccctaatg 240

tcgatgaaat gtcaggttct gtttgtctag atgttattaa ccaagacctg ggagcccgat 300

gttcgacctg ggtgaatgtg ttcgagacat ttcttccgca acttcttctg tatccgaatc 360

ccgtcagatt cattgaatgg gtgaacaact gcattgatga tgcttgatcg tcccna 416

<210> 1162
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-F6

<400> 1162

ctcgagagaa aattgagatc cgaataacta tggtgagact caagacgagt ctctgggttc 60

ttctccttgc cctcgtttca attcagttaa atggttcgtt tggatctgaa tcaagtaaag 120

tagcttatgt cacacttttg tatggagatg agttcttatt aggagttagg gtattgggta 180

aatcgattcg tgacactgga tccactaagg atatggtcgc tttggtttct gatggtgtct 240

cagactactc taagaagtta ctcaaggctg atggatggaa agtagagaag attagtttac 300

tggcaaatcc aaatcaaggt tcatccgact aagttccggg gtgttataca aagcttaaga 360

tcttaacatg actgattata agaaagttgt gtaccttgat gctgatacn 409

<210> 1163
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-F1

<400> 1163

ctcgagcttc gttgtgatag gtcaggtcag ggaacaacaa tggcttcttc tgcaacagca 60

ccaaattcgc tatctttctt ctcatcttct ctctttttat cctcctctca ccaaatccct 120

aaaacctaca tttccgtttc aaaactcggc tccggcagag tctcgaagcc gctttctgtc 180

tcttcccagc tagcgactct accgattcta tcattcgaag gagagaaggt cggagagacg 240

tatctagacc tcaaagcggc gccggaggat accgcgcgtg cgttgtgcac cgaaccatcg 300

tgacggacct gaataacaag cggcgaggta ctggcttcaa aatgactcnc ggtgaaattt 360

nttggtggtg ggaattaaan cntactcaca gaagaaaaat gggcaacgcg angg 414

<210> 1164
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-F9

<400> 1164

cgagctttct agtctcttct ctttactttg gtcgtccaca atgaaaggag gcagcctctc 60

gtttctcttc gttctcctaa tcgccaccat cacttccgtc atttgcttca gtgacgggat 120

gttaccaaac ggcgactttg aactaggacc aaaaccatcg gacatgaaag gaacgcaagt 180

aataaacaag aaggcgattc ctagctggga gctttcaggc ttcgtcgaat acataaagtc 240

cggtcaaaaa caaggagaca tgcttctcgt agtcccggcc ggaaagttcg caatccggct 300

aggcaacgag gnatcgatta aacaaaagac ttaacgttac aaaaggaatg ttttactcac 360

tggacgttca agtngccgca agggacatgt tgcccaaaga cgaaacggnt caaacatatc 420

gg 422

<210> 1165
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-G11

<400> 1165

tcgagcaaaa attcaaactt ttttctcttt ggaaaattct gaggcaaaaa tgcggcgtaa 60

ttgctgccat gtttcatttg cttcaaccct caagatcctt aattttgtcc aagctttcat 120

tggtgtttcg atcattatct actccatatg gatgctccat gaatacagcc gtcaccttcc 180

cgtggacccg cctccgtcag cttcatcaag ctccggaacc gagatcgcta ctaagtgtat 240

ctgagccctt gaagaatcct attgattttg tggcgaagta tcattctcgg gtctaatggt 300

ggtgatnatg ggtttaacct acgccccgtt ggaccttcct gctccaaggn tcaactactc 360

cttcatgggc ggttggtata atggtctgca attggtacct tcaantgggt tcaat 415

<210> 1166
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABL1-02-Q1-B1-G4

<400> 1166

gaggcggcac taccgttaga gtttccagat ggcaccacac cagtaacatg ccgggtctct 60

atatatgaca actcaagtga caaaaaagtt ggtgtcggaa aattgatgga tagagcttct 120

gttcctcctc tacctcctgg cagtctgtat atggaagaag ttcatgtcaa gcctggcaag 180

gaactatact ttactgttgg aggccagcat atgccttttg gtgcatcacc acaggatgta 240

tggactgaat taggtcgacc ttgtgggatc cacccaaagc aggtagatca aatggttatt 300

cattctgcgt cagatnctcg accaaaaaca actatctgtg gtgattactt ttacaactaa 360

tttactcgtg gtttgggaca tcctgtttga tggcnagact ccacaaagtt aaa 413

<210> 1167
<211> 170
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-02-Q1-B1-G5

<400> 1167

ctcgaggaaa gcttcagctc tctgatttgt ttttttctct cgtacgttct ttgtttctct 60

gtaactgttg tttcattttc tttcaccgaa tttcaccagt gagaatttct tccattttcg 120

aaaaagaaat aaaaatgaaa ttctgttttg ggctaaaaaa aaaaaaaaaa 170

<210> 1168
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-G9

<400> 1168

ctcgagtgga attgtcaagg ggacaatgac aaccacacac tcctacaccg gagaccaaag 60

gcttctagat gcatcacaca gggacctaag gcgtgcaaga gccgcagcac tgaacatagt 120

gcctaccagc acaggagcag ccaaggcggt gtcattagtg ttgccgcagc tgaagggtaa 180

acttaacggc attgcactcc gtgtgccaac accaaacgtc tcagtggttg accttgttat 240

aaacgttgag aagaaaggtt tgacagcaga ggatgtgaac gaggccttta gaaaagccgc 300

taatgggacc gatgaaaggc attttaaacg tttgcgatgc gcctcctgtc tctgttgact 360

tcangtgctc cgatgtctcc taacaacaat ngactcgtcc cctcaactaa tgggnttatg 420

ggt 423

<210> 1169
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-02-Q1-B1-H10

<400> 1169

tcgagctcat catcttgtta taataacgat gatgggagga atattttcgt tattttgttt 60

tctttgtata tatatattaa ttaggttgga gaactcattg gtggaagcca aagggaagaa 120

cgatatgatg ttatcaaaca gaggatcgag gagatgggtc taccaatgga gccatatgag 180

tggtacctag acttgcgtcg ttatggaaca gtgaagcatt gtggatttgg acttggcttc 240

gaacgtatga ttcagttcgc tacaggaatt gataacatca gagatgttat tcctttccct 300

cgctatcctg gaaaagctga tctctgattc ctcctctaga cacacaattc tggtctgggt 360

ctcgacatgg gtttagtttc cttttaaatt gggtaaaatg aaaaattgta attgg 415

<210> 1170
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-B1-H4

<400> 1170

tcgagtggag gtgaaccgga atgtagtcct gtggtttacc agattcaaga taatctcaaa 60

caacctgtct tcagctgcaa attcagctcc gatcgtaacg gaagatctcg gtctctacca 120

tcaggattta catatagtag tagaggatgg attacaagaa cattatcagg tgaccagtgg 180

gaaaagaaac aagcgagaga acgtaaaggt tggatgataa cgatccatga tctttcggga 240

tcacctgtag cagcaagctt caatgatcac tcctttcgtg gcatctccag ggtctgatcg 300

tgtttcnaga ttaaaccctg gtgcgtggct aaaccttaag gcctcaatgg gacnttgtgt 360

caagttagtt tgggaaaacg ntggggactc cttgaaggct ttggcnttga gaagaaggag 420

ctaattgatt 430

<210> 1171
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-A12

<400> 1171

gtgttaccct gccgtncaac tttaacgccn ncaggtaccg gtctagaatt aattcccngg 60

tcgacgagct cantagtcgg cggccgccct ttttttttt ttttttacc ccataaagag 120

agtgaataga aggagccact ttttttccca ctgtaattta gaaaatgaag tgtntaaatg 180

tccttcaann gtaagtaaat aaatccgaaa catataaaat gcggttaatc ccgctgttga 240

acaagctatt attgcaaaaa ttggcgaaaa taacaaacta tcattaagaa tttcatcttt 300

cgaccaaaaa caagcaaggg gggggatacc acaaagagag agtgttccta ttaaaaaggg 360

cgtttttgta atcgggacat gttttgtcaa accacccata agaatcatat tcctgacttt 420

tatcgggaga aatatccaac tataacttcc attggaatga ataatgggat ccagattcct 480

aaaaaacaac aaagct 496

<210> 1172
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-A2

<400> 1172

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn naacaacagt 60

gcgtgaacaa aaaatatatt gaatcccccc cttccgggtt ccntcttgtg ttcactantt 120

canaaatgaa tagatcaana taaatagtcg ccatnatcat cagcaataaa agaatggnat 180

caaangtctc gangcanctt cctaacttgc tccaacgtaa cgaaggagaa caacagtgaa 240

aggaccttgc ctacaaactg taggaacaaa gcctttataa agagccatgg ctccttccgc 300

tttaaccgtc ttcaccgcac aatcccacgc gccgtcgtan gctcccacct tcatattcat 360

cactcncgtc tttacacatc caccgggatt agacgcaacc gaagcaaaca a 411

<210> 1173
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-A3

<400> 1173

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnggaaccaa acaatcacaa gaaagtgggt caaacangna acanaaatgt cgactctgct 120

atcataatag caaagtgaca taaaagccac tctgaactca aagctcacac taacacacaa 180

cctagaaagg caatttatat atttgtggcg aaggaaaggc cttccttaga tagcacttca 240

aggntctcaa cagaaggttg tgctcgtgca agtttagcaa ttgcattgtt ctcttcagga 300

cttccacctt ctaaaaatgc tccaaccact ttccgttctt taatccaagt agctcccgaa 360

tttcggcttt ggcgaatccg ggtcaatgtc cccaaacaaa aagcctttnc ca 412

<210> 1174
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-B10

<400> 1174

ttaccctgcc gtncaacttt aacccgccag gtaccggtcc aagaattaat tcccgggtcg 60

acgagctcac tagtcggcgg ccgcccnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gnnctctnca gcattagctt 180

atnngnacta ttcactantt tgaattcact ctcctattca gtcagtactc aggcatctat 240

tatctatata caacttgaat ctgtgattga gaaaaagaaa gaagtagcaa gtgaccatta 300

atcataggtg gcgatgaacg gaatgaccat caacatgaag acatcgtaag agagcgttgc 360

gtagcctgtg taaccagggt cgttctccct gaaattcncc ggcaaacccc tcaaaaatca 420

atccaaactc caaggaaact gtcnnaaaca taaggtcaac aagttttgcc aantcccatc 480

atcaaacctg aa 492

<210> 1175
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-02-Q1-E1-C7

<400> 1175

ttttttttt ttttttttac gaagcnacca taaccaaata aangaggtaa atcaaagttc 60

tgacctgatc ggtttggttt acgagagtgn ggngagngna cttacttact tcctggagac 120

ataagcaaag tattgtgcca tgggaactac aaaggcaatt acaagtaatc ctccaacgac 180

aagactgaac tgtcctcgct tctcatcggt ttcttcnttc gtcttgaaat ttgattctct 240

cttgctatcc tttacggttg gacccccggg atctggttga ccgtctatag ctgcaancan 300

nctttcgca ctgctatata ccgcctcngt tgtatttttc cgtcngttgc tantacgggg 360

aagaatttcg gaaanggtan catcaanaat gttttcacca 400

<210> 1176
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-D5

<400> 1176

nnnnnnnnnn nnnnnnnnnn nnnnangaca aaagaatcaa taaacaaatt ttgaagcaca 60

tccctcccaa tcgtctcata ctaaannatc ccagacacca gnaatttgtt tcttnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnttan ccttagtgca 180

gcaacccaaa aaaaagacaa cctaagtagg aggggtggtt cggatattta agacattacc 240

cttcttcagg taaacaaaag gcctcttctt gttttctttc ccaacccaac acttttacc 300

ttactaactc ctgaaagatt actgttgctg cttcttccgt tgantcntcn cgggtnactg 360

gncaangctt tggtcctggg gcanancaat aaanctgtta annaananac cntttccggg 420

gnaaaacaag gactttg 437

<210> 1177
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-F1

<400> 1177

tcggnggccg ccctttttt ttttttttt tgaataagat aatttcgatt tcgactgtat 60

aaatgattaa caaagattaa ttaaattaat taattataaa tccctcaaaa angntctaaa 120

ccatacaaaa ctccggcgtg tttctccgcc ccatcctcaa cgaaatacaa atccctcatc 180

ctctgaaacg cctgccacgt cagcaaacta tccgaaccgg cttgatgaca tttccaaccg 240

cccggttaaa cttcaagaga accgagcaac ccggtcaaaa ccaaccaatt acaatcctcc 300

tggctcaaca aaaacctcat aatangtttc aacaatcaat aaaaccctaa tcaaccgaaa 360

naaaagctcc taagcaaacc tnaaaaaact naacgccaan ggcaaccggg aaagcngccg 420

ggggcc 426

<210> 1178
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-F2

<400> 1178

ttttttttt ttttttttaa taatttgata atcatatcat attatcatct taagcattca 60

atgctacaaa gataataccc ccaagctatt ttagattagg agctgannac agagacacaa 120

tactaacgat aaaagttcgt agtatcttta tgcaaccata catacatata cacaaagata 180

gacaggtagt gtcctaataa ttctacttgg gtgaggtatg aacagcagca acagtagata 240

ccattgtatc cataccacac atattatgag gccctctgca aattttgtaa gtaaccatgc 300

tctccccaca tcgctcccca cgaattcttg aaaaatccaa taaaggnttc cccttaaaac 360

cggttggggc aataaccccg atgaaacaaa tccaaacaaa gaacaactcc aanggccttg 420

<210> 1179
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-F8

<400> 1179

ttttttttttt ttttttttag cgaataatca ttcaatactc attaatattt ttccttacaa 60

aaacaaaaat cagtaatttt cctttnactc nggtcttgta aatgttatct accggtatat 120

ttcacttcag tacttttctt ttacaaaaat tataactatg accccatctt cctataattg 180

aagtatggaa ccctattgtc aataacaacc caaatcatca tcatttgact ctgttcttaa 240

ctctcattct gatgctgctt aagcaaataa gcctcatcgt gttcttcagc tccaaaacac 300

ttcacttcga tctcancttc ctcttcantg gagttgttgc atctctgact cgatnaaggn 360

ttgcantttt ggcnccgnct cgggcccccc gggtatgtgn aaaaataagg aaccagt 417

<210> 1180
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-G12

<400> 1180

gtttagcngg ccggtacagg tttaaaacng cctggccggt cgaanagctc aatacncggc 60

ggccgccctt ttttttttttt ttttttacat ggaaccatac aataaaacat tacataagaa 120

aaatatctct ctccaacgat atgtatggaa gataataaag caaannggtc taaannaaga 180

ngnaataaac aagtgtaata tgatgaactc gaagaagact ataatagcat tgactcttga 240

ctagcaatca aaagtcaacg tcacacttgg tcggctgaaa aacaaacccg ctggttgaat 300

taagaggtaa gaggaacctt gagatcgcac ttgatcttgg gcttgaacct ccacgacttg 360

atcaacccaa acttaaacct aatcttaagt ctcancttgg catcgattct atagatctga 420

gaattcacat cntcgtttca aatccttcct ctctccgccg tcaagcagca ncaaattgct 480

gtcccacgaa 490

<210> 1181
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-D4

<400> 1181

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nagagaagct aattgtaata 60

ttaccgaaca gtaaaaatat tacaagacac tgaagacgnn ncnccaccgt taaaagctaa 120

aaactaaccc agatggtgga aatcaacggt cactaacaaa cacaaacgac atgaagcaaa 180

taaaagattg cacatatagc caaaatagac gaaacagaac ataaacacgt ggcgtaaaga 240

acataattat tttacatcat tctcatgtca ctctaccctc tcggctcaac ggtgcttgct 300

cctantgtcg tcgctgtata gccaatcgta nacggtggga nagtttgggt gaagaagggt 360

tgtccaaaaa gtttgtgccc aatcctctan tgggcgaagt tacttcctgg aatgaaacaa 420

acttccccan aa 432

<210> 1182
<211> 344
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-G7

<400> 1182

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnaatcca ccacctaaac cattgttagg angagtaang aagcctctta attgtctatt 120

tcagctacag aacaaatgct atttgtttag ttgggttctc catacaaaag ttgaaaacca 180

ctgttctcta ctttgcaata atagacttca tcaccgacta gctttcacag aaactttcac 240

catatccaga cccccaagat gataatccaa ggaagtannt gctgctcaaa acaaacggaa 300

atggnacctc tgccttgcca tatccttggg gtgacaaana aaga 344

<210> 1183
<211> 436
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-H6

<400> 1183

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actgacaaag gttctcatat ttgtgnnaaa tngngagttt tcacaaagct atatcacata 120

aaccattcaa aatcactgct tataacagaa ttcactaccg agcaagcttc tcacttctta 180

gacttttttcg caggtacctc ancggtttgt gcaggtggtg cagcggnang tangtctcct 240

ccaggaccct tggcaagacg ctcctctcgt cgagcatgtn tcctctctcg gctagccttg 300

ttctnaaccc tcttancctc aaactgggtc anacaatgtc ntctctccaa ccttctcaac 360

ccttgggatt tggngaatac ntttcaatcn ggaanaagcc ttgntcnntg aaaaacgttt 420

cccngtggac tttaaa 436

<210> 1184
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-H8

<400> 1184

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnt aaattatgaa aggatccant gacggttcca aatcattcca 120

atcaaacaaa aancagagtt taaacgataa caaagcaaag gaatgaaaca gagtttaaac 180

gataacacag agtacgtant tgtttttccg ctaaatcggc gaattcagga acaagagatn 240

ttaagcacgt tttaaaacta ccatgaanga taacaaccan agctaatcca aacagagaac 300

gagggtcatt gaacaacgtc tgcttcttgt cttttccatc ttcngtaact ggattctaac 360

ccaannaagt cnccaaanta ggaanataaa ttttccancc aacggaaaaa 410

<210> 1185
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-A1

<400> 1185

tcatatatta ctacttttc acctacaata tcattggaga tgtggagtct atggccttta 60

atgatggaag cactcgtgga ttgggctatt gacttttcc caaatatatt ggtcccgttg 120

cacaactata tatccagggg gactgggcat tatcttactt gcaaggaacc agattaccag 180

caaaatcttt ggaatgtgat atctgtgctt atggcgaata aaaatattga tgacagtgac 240

ctcgagccag ctccgaagct attagggata gtgcttcaga catgcaaggg ccaangtgga 300

tcaatgggta gaaccctacc tgagaatcac acttgatcgg ctacgcggtg ctgaaaaatc 360

tccttcaagt gccttctggn tgaaantggt gcaaatgcct ttt 403

<210> 1186
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-A11

<400> 1186

tccttccttg ttgtcatcgt cttcctcagt ctctcaattt cttcccagat tccccaacgc 60

gactagattc aatgtaactc cacggagcag agccgccacc gtcgtcgcgg catccgtcac 120

cgacctagcc ggggtcgaca gtacaacaat cgccgtactc ggtggaggat ccgtagcagc 180

actcgcggcg atggtttcct taacggatcc ggagaggagg cggaaattgc aggcggagga 240

agttggcgga ggcgataagg aggttgtgag ggagtatttc aatagcacgg ggttcgagag 300

gtggaggaag atctacggtg agactgatga agtgaatcca gtacagaagg atattcgact 360

cggtcatgct aagacngtgg agaacacgat gcctatgccg actgaagata aattcttggg 420

nggtgtca 428

<210> 1187
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-A9

<400> 1187

ctttgccagg gaactcgggc atctcgaggt cggcgagttt agtttcttca accctgcaaa 60

gatgggtcag gccttttca gctgaaactg gagataccgt ggaagcagtt gtgcctcata 120

tgggggaatc aattactgat ggcaccttgg ccacctttct gaagaaacct ggtgagagag 180

tccaggctga tgaggctatt gcacaaattg aaactgataa ggtgacaata gatattgcta 240

gcccagcaag tggtgtaatc caagagtttc tagtcaacga aggagatact gtagaaccag 300

gaaccaaggt cgctattata tcaaagtctg aggatactgc atctcaggtt acccccctc 360

agaagatacc agagacaact gataccaaac cttctcctcc tgctgaagat aaacanaaac 420

ccacagtgga aantgctc 438

<210> 1188
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-B1

<400> 1188

catcaaatca tgagtgggca anagaatcat gatcatggcc ggatctcttc tacgcccgcc 60

gccgcgtcgg agccttccaa ggctgctgct cannnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncaccgg tgccgccgca 180

accaccatgc cagcggaatc caatccttac gtttctcctt cccctgcccc aaggaatacn 240

atggattcgg tgaaggatac gttanggaaa tgggggaaaa tggctgccga cgccaccaag 300

aaggcggagg atntcgccgg aaatttttgg cagcacttga aaacaggccc aagtgtanca 360

gatgctgctg tttcacgaat tgctcanggg acaaaaatac ttgcagangg tggata 416

<210> 1189
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-B10

<400> 1189

ttacgttatt gtagcttaca ttttcgcgcc ttctctggcc ttctgtaacg cttatggagc 60

tggacttaca gacattaaca tggcttataa ctacggcaaa attggtcttt ttgtcatcgc 120

ggctgtgacg ggaagagaga acggagttgt agccggactc gccggttgtg gactgatcaa 180

atccgttgtt tcggtttctt gtattttgat gcaagatttc aagacggctc attacacgat 240

gacgtcacct aaggctatgt ttgctagcca aatgattgga acggtcgttg gatgcatcgt 300

gacgccgtta agtttccttt tgttctacaa agcgttcgac attggaaaac ctaacggaga 360

aatcaangnt ccctaanctt gaattacaan aaatatggca atccttgggt caaagnnttc 420

ctggccngcc tcttaaagtc tcca 444

<210> 1190
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-B12

<400> 1190

caaaccaaac aaggaanaag aaaagaaana caaccatcaa caacaatgng cgagtgaana 60

agaaagtttc atggagatna ctaatcgttg gatgtttagg agatcnagaa gnccctaatg 120

gcatcttcaa aganacctaa nagaaganat gacgtcatca agaaacagag ctcttttcaa 180

aggactatcg atacttgatg atgagcaatc caagttccaa cactttgtca gaagatctat 240

cgatttcttt ggccggatca gatcttcatg tgtttaccct agcggagctt anagtcatta 300

nacagagctt ttcatcgacc aantttcga cgtgaaagtg ggtttggtcc tgtncataan 360

ggtttcattg atgataagct acgtcctggg cctaaagctc aacctgttgc ngttaaattg 420

cctgatttga aagncttca 439

<210> 1191
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-B4

<400> 1191

agagaaacgt gaaggggaag atggtatcag tgtcattatc tcatcataat ctctggccac 60

cggaatctgg atctacggcg tttcgtggtt tcgcaaccgc cgcttccgta cacgcctgcc 120

accatgttag ccgtcacctc cgccttgatt tccatcttcg ctcttccctt aagaaactgc 180

agcatttttc tgatgatgca agaatgaagt ttgcaagata ccaaagagta tttgtattca 240

atggggctaa ttttctcaag tctagagttg atatccggtt gtcccaatct tcgccatttg 300

tatgtttctt taatggtgga gagagtanat taaaccctan anggtggtga ggaaggatca 360

tcgaacccgg agacttccaa gagaaacaca nttaacggac ggagatggac caatgtcctt 420

cct 423

<210> 1192
<211> 135
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-F5

<400> 1192

ctcgaggttc ttgcgacgtg tgtttgattg gatttttcaa tcgtttcgtg ttcctttgat 60

tgtcaaataa actttgattt ggtgnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnn 135

<210> 1193
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-01-Q1-B2-F8

<400> 1193

ctcgagatcc ccctctgttc gatcccgccg cggtgagaag cgatgaagtc ggagacttta 60

acattagttc tggtgtatct cgccggaatc atggagagag ccgatgagtc tctgcttcca 120

ggagtttaca aagaagttgg agatgctcta cacgtggatc ccacagctct tggaacatta 180

actctgttcc gctctattgt tcagtcttct tgttaccctt tagccgctta cttgtcttct 240

agacataacc gagctcacgt catcgctctc ggtgctttcc tctgggccac tgccactttc 300

ctcgtcgccg tctccactac tttcttccag gtgggcagta tcaagaaggc ttgaacggga 360

tagggctaac cattgtgaca cccgcgattc agtccctaat cgctggactc aac 413

<210> 1194
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-G3

<400> 1194

tcgaggttac gatttccgtc aaagcaatag gatcgatcta cttatactag gtctgaagaa 60

gaagctggaa actgcatata aacgttcagg ggggagaaaa gtcactatca tctcccattc 120

aatgggagga cttatggttt catgtttcat gtatctccat ccggaggcat tttccaagta 180

tgtaaataaa tggattacaa ttgcaacacc tttccaagga gcaccagggt gcatcaatga 240

ttcaatcttg actggagtgc aatttgtgga agggttagaa agtttctttt ttgtgtcacg 300

ttggacgatg caccaactgt tggtcgaatg cccatctata tatgagatga tggcaaatcc 360

aagactttaa gtggaaaaag caaccanaga ntccaatttt ggcgtaagaa atcctgaa 418

<210> 1195
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-H4

<400> 1195

gcttgttcac aaaaagatta cttttcttat tggtcctgaa gtctctgctc atttttttcaa 60

agcttctgaa tctgatctta gtcagcagga agtgtatcag ttcaatgtcc ctacttttgg 120

tcctggagtt gttttcgatg ttgattattc tgttcgtcag gagcagtttc ggttcttcac 180

tgaggcactt agagttaaca agttgaaggg ttatgtggat atgatggtta ctgaagctga 240

ggattacttc tctaaatggg gagagagtgg tgaagttgat attaaggttg agctagagag 300

gctcatcatc ttgactgcaa gtagatgttt actgggtcna gaagttcgtg atcagctttt 360

tgatgatgtc tctgctttgt tccatgacct tgacaatgga atgcntcca 409

<210> 1196
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-F1

<400> 1196

ctcgagcaac gaagaagaag acctaaaaga tcgggacttg aaactatgat caaatcagaa 60

gcagatctct ccgatgtgat cgtgattcgt gacgtttggg cttataatct cgagtcagag 120

tttgacctaa tcagaggaat cgtcgaagat tacccattca tctcaatgga tacagaattt 180

cccggcgtga tttacaaggc ggatctcgac gttctccgcc gtggaaaccc taattatctc 240

tacaatcttc tcaaatccaa cgttgacgct ttaagtttga tccaagtcgg tcttactctc 300

tccgacgccg acggaaacct cccagatctc ggcggtcaaa aaaaccgtcg atacatctgg 360

gaattcaatt tccgttactc gaanttgaac gtgattcaaa agctccctga tccatt 416

<210> 1197
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-H8

<400> 1197

tcgagcattt ctccaaaatc tccgagttct acaattgtgt gatcaatcaa tcttctccga 60

tttcaagctt ctcgatcaaa agaatcatca tgggaggagg aagagctatg gcgacggcgg 120

cgaaggttgc tggaatcgga gttggtaaag gaggattcaa gggatttgga tttcctccgg 180

cgactgagca gtttcgtgtt aaaaccgcgg cggctgcggc gtcgtctaaa ccggtttcgg 240

cttcgattac atcggcggtt catccttctg ttgaagaaga tgggatgatt atgcagagac 300

cggtttggga tgattgggaa tttgctgaag aagaaccgat tcctanggtt gtttttagca 360

aacctcctaa tcttgaagaa nctaaagaag ctactgaaga tcttaaagaa gcaat 415

<210> 1198
<211> 421
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-A11

<400> 1198

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ttatggaaga tgggccaaac gacaaataca cggttacnaa atgaaagaag cccaaaacaa 120

acccagcgaa aacaagatca gaaccgtgcg gtacaccgga aacacgaaca tcgccttcta 180

gaaccgacgc tagcaaggac gactcctatg tggctacgac ctcgacatca aacttttggc 240

ttgagctagc gaaccccgcc gcaaatcaac gccaagaaca agcctaacct ggaacaatcc 300

tttcggaaaa ngggagaanc gccacaaccg agacccaatc cctcctctcc caaacctaac 360

aagacgaagg attcnaaaac ttacccccat ctccaactga tgcccaaccc aaggggcctc 420

t 421

<210> 1199
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-B10

<400> 1199

nnnnnnnnnn nnnnnnnnnn nnnnnnnggg aacaaacaat tagaatttaa tttggaagtt 60

tgaatgtaaa gttacaagta catatcaaga tnggttccnt agtaaacaat gatgataaca 120

aataactacg ctcatttgcc agggagccaa atactgcatc agcttcagaa ttttcttagc 180

tcttccaagg tcaagtttct ggacttgacg catcaagaat gggttgtgaa aacgattcct 240

cgtagcttag gtagacacat agtcatggct tcaacgtatc acagctagtt tcattaactt 300

ctgcagactc atccagtttg ttaatgggct gggaaaacga ttgcaagaga gttttttgtg 360

caggtaactc ggcaatgaaa agcaatgttt gagcccaacc agcatattca ccaa 414

<210> 1200
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-B2

<400> 1200

nnnnnnnnnn nnnnnnnnnn nnnnngataa aaaggctcat taaacggccc agactcaatt 60

taactttcat atattgggcc ataaactgat acngtgttag ggtgggctca ttgctaatga 120

gcattgtacg gttttgctca atagaacgca ttttatttac aagcaagaag cagagataaa 180

tagagagagt cagcagcgca aagagactcg ctcatacaaa tcaccangag taattaaaac 240

ttatttgacg agatgctaaa tngggcggtg ggtttaagaa cggtgcttca acaattggag 300

aacaatacct ggncancnac cacaaatntt tacggncctt tncnaaattt gttagaaaaa 360

caattttcaa cccnaantct ccncccaaca atttcttgaa tgatcaatta aggcttcccc 420

cttnaaccca acccggagcg ttaaacctnc 450

<210> 1201
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-B3

<400> 1201

ttttttttt ttttttttaa ggaaaaatcc aaatattagt ttcatctcta aacaaagtca 60

ccatcgattt agtattctaa aacgccaaca tnnggagttg caaangcata tatttctctg 120

gaagatgatc atttcttctt ctttggttct tcttctgcat agttcttgat tagtgcttct 180

acntctttcc agaataaacc ctcaacaaga actccatctt tcgtgaacca ttgggtgaca 240

cttttgggtg agctgaactg acttcccagc tgagattgat ttggatnaac actgtccatg 300

gtgaagaagt gtacctgatn aaaaaatccg gggcaacttt tgaagatacc accaaaccaa 360

gtgctgggtg aaatgattcc tcaaggagga taaggtgaan aaaaatccna atcctcnccc 420

taagggtaca aaa 433

<210> 1202
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-C3

<400> 1202

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cggaggccgc ccttttttt ttttttttct ttatacctcc caaccaataa atgtatataa 120

tatagacaaa caatgaaaca aacaccacca acaacaaaaa agtannactt tgngagtnct 180

tttagactaa acatagatca caacactggt acggagattg agattgatat cggaactgag 240

acatccgttg taaaaccacc gtctctattc ccatttgtat tccctacaaa cccgtaaacg 300

ccagaccgca tcgctgcatt ttcccgcctc tgaaaaaccc gagcaagcga agccgctttc 360

cgtctaaccc gctttgtccc cgtaaacaaa agcgtctgta ncaacccccg caatcgcagg 420

tgctctcaaa actttctccg ccanagcanc tccacaatnc ctacaaagct cgagcaacgg 480

cagcacanga tt 492

<210> 1203
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-C6

<400> 1203

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caagatatga aatctgcatc acatttccaa gaggnaacan accggataca cacaactcga 120

tcacaaatta aactcacttt ccggggacga agttggtanc gaaggcccat gcattgttgt 180

tgactggatc agccaagtgg tccgcgaggt tctccaacgg tccctttccg gtgacaatgg 240

cctgaacgaa gaatccaaac atagagaaca tanccaacct tccgttcttg agctccttca 300

gcttcaactc cgccaaagcc tcggggtcag taàcnaagcc caatgggtcn aaactcccac 360

cttggtaaaa caaatcctcc ngcntccccc aaatgggcca tctccgggna 410

<210> 1204
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-C7

<400> 1204

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acattactat ccacaaatta gaggccaaga tanncaacag gagttattta acttggtttg 120

acatctatac tgaaaccaaa acataacccg aatcatccaa ccgttcttcc acgggaagcc 180

ggtttacata aacataccat gataccaaca tcctccactt gaaagaacac ggttggaact 240

taacttttgt tgttcaccac ataaaaccta acataaccaa tcaatacaat aaacnaccgg 300

aatatacttt taagaanttg aatttacctc ctcggtcntc aatccaccaa anaataccan 360

nagatngagc cnataaancc gggtgttccg ccggaantaa ctncnnngga ntttaacagg 420

gcggggnttc a 431

<210> 1205
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-D10

<400> 1205

gtaccctgcn ggtaccggtt tanaatggct cncgggtcnn aagagctcac tanccggcgg 60

ccgcccnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnacaaaa ggngccaaat tttctttaaa ataacgnggt tanngcatta catgacanga 180

gtagaagcta aaagccacca catcattaca tgacaccagt agaagctaaa agccaccaca 240

tcaggaggaa gagaaggtat cgataatggt ggtgtgaant gggtcactaa ggtgagtcnc 300

ccagttgttg agcggtcctt taccggttgc anccgcctga accgcaaaac ccaagaatcc 360

aaccatggct aaacgagcat gtttgatctc agctagctga agctgagcct tcttcaccgg 420

gtcagacgct aatcctaacg ggtcaaagaa cttgcctcct ggaaacaaac gcctctccga 480

<210> 1206
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-D11

<400> 1206

ttttttttttt ttttttttga gggaaattac tttcaatttt attgaacctg attcgccaaa 60

agaatattac aacaatggcg atcagatcaa gatcaagatc agttgtataa atcnnctcta 120

tacattatta ataaatgctt gagagactaa atgaaaatga gaatttacag attcctcttt 180

tgaaaaatca aaaagnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnngtgtat tancaatggt aagtgtcttt accagaggat gttgttgctg 300

cttgtcttgt ttcanacaca gagantcttc nanatttccc tgttgatntt tccaatacct 360

catcngtctc cnaagctgtg ttgtccntan gtgaanactc ccattgggtg atca 414

<210> 1207
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-E1-D3

<400> 1207

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gaaatgaaat gataactata attatagaga aacngatagg nataacattt tcactttcaa 120

acaatagttc ctcaactgtt aagtcggcaa ataatttctt aaatttgcat tgaccacata 180

naaatgggtt ccaaaataat caacgctgaa tattccagaa aggggattaa ncttcggtga 240

aacttggggg cttgtaagca atgaaactga tncattggac ttnacgggtg ttgtcnaatc 300

cgatgattct aattaangcg ccaaggtact ccttcctgca atcctcaaac ttccttcaaa 360

acttgancgg aattcggtgc atccgaaaca attggaacct ccacattgtc aagtatccgc 420

caaccaaaat aanccggg 438

<210> 1208
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-A5

<400> 1208

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acaaagtttt gagtcagtag agaaatggcg ggaatcgtga cagagccgtg gtcagtagct 120

gagaacggaa acccaagcat aacggcgaaa ggatcgagca gagaactaag acttggaaga 180

accgctcaca acatgtcttc ttcttctttg aggaaaaaat cagacctccg agtgattcag 240

aaggttccat acaaaggtct taaagatttt ctctctaatc tccaagaagt cattctcgga 300

acaaagcttg ccattctttt tccggccatt cctgccgcca ttatttgcac ctattgtggc 360

gtcagtcanc cttggntatt tggacttagc ttgcnangac tgacaccttt ggctgancg 419

<210> 1209
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-A8

<400> 1209

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tataagacaa ttcgccggat ccgtaaaaag cgacgaacca ggcgagtttc gtttggtgga 120

gatggagatg acgcaggaga ttttggtcgt tttctgttag aaggtgattt cggtggtagc 180

gacggtccat ttggatttnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnngagggat aattgggatg ggtcttcgtt ttcgtcttgg 300

tcagatccag cgatggaatt tgtgtatgaa gtgatttgct ggatcgcgtt gtctaattgt 360

gtgcactttg cgttcaagag gatantgagg atctgaccga cggtgaaag 409

<210> 1210
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-B5

<400> 1210

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ttaattgcac gatgtccgat gctccgtcgt cttccccgga tgccacggcg tcgcactggt 120

gctatcactg caacaaacgc gtcgtcgttg aaaccttaga tgactttgtc gtgtgctgcg 180

aatgtaacaa aggtttcgtc gagtcaattc aaccgactcc cgccgcttat tcatcgccgg 240

cgccaccgca gccactttcc ccagatctga atgtagaaga ctccagtatt ggctcgcatt 300

tcctccaaga tgctccgctt gttagcccac gcgccttctc ancgttcacc accacgacac 360

cttgatgttt tatcttacga agatgatttc ttcaggttgg gagctcaata nt 412

<210> 1211
<211> 378
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-A1

<400> 1211

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gttttcttca gaattcccag agaagttgtt ggaattgaat ttttcacttt tttgttcata 120

aaagttctag tctttttaga tgaacatgga naaggaaaca gagcaaaccc taaattactt 180

acctttgggt cagagcgatc cctttggcaa tggcaatgaa ggaacaattg gagatttcct 240

tggaagatac tgcaacaacc ctcaggagat ttcaccgtta actctacaat ccttctctct 300

gaattctcaa gatccccgag aatttcccaa tctctggngg gaatcagatt cccctccata 360

tccanggtca atttggga 378

<210> 1212
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-B6

<400> 1212

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aaaaaacaaa aggtgagatc aaagaggaaa aatggcgcat agggtagaac aggattatga 180

ttatttgttc aagatcgtgt tgattggtga ttctggtgtc gggaaaacaa acatcttgtc 240

tagattcaca aggaatgagt tttgtttgga atctaagtcc actattggtg ttgaattcgc 300

caccagaact cttcaggttg aaggaaagac tgttaangcc cagatatggg acactgcaag 360

tcaagagcgg tacaagagct atcacaagtg cttattacag aggan 405

<210> 1213
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-B7

<400> 1213

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tgtagaggaa gacagcccct acacgccaga tggcaagaaa ggaacttact attttgagtt 180

ttcaaggccc ttgaggacaa tggaccgtct ccaacaggat gttcagttca cgcttggctc 240

gccggccaaa atgtccgtcg cattctggta cccagtggac aacaaaccat ggcatggatc 300

aggacactac acgatnaact gcgattggac accggctaga tatctcctcg gggtcntctt 360

cgggtcccac ggcttcaact gtcaagggct cctancgaat gggggccaac cattacagcc 420

a 421

<210> 1214
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-C1

<400> 1214

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tttcagacca agattccaaa ctccagttaa aggccaccat atatctccac tctcttggtc 120

tgtttcaaga agaaagatct tgtcttttag ggttcttcgt cttcaccaag aaaaaaccca 180

actatggaga gtctctgcaa ctccggaaga aatttcccaa gagatcgttt cttctgattc 240

atcttcttct tctggagcag ttgtgtctag tggtggacaa gatggtgttg ctttgattat 300

acaagtgctt ctctttgttg catttcttgc tctcaaggtt cctcaacatt ggtgttgtgt 360

acaatggagt gactggagtt tccttgggaa naaggaagag agaagaagtt tgagaaaga 419

<210> 1215
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-C2

<400> 1215

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ccacaccaca tcacaccatg tttagagcca tgagcacaag gaaaatccat ggtggctacg 120

aaaagctcgg cgatgaagaa gcgagactga agagggtctc tagcgttccg gctagtgttt 180

atggtcattc aagaaacccg gttcaagaag tgaagaagac accgacagcg aaaccaaccg 240

gtggttctgt tcatcctttg tttagtttct ttgacgttca ttttcaaaga aagaagaaga 300

atacggcgaa gaagaagagt ttagcaacgg cgaaaccaga gtttgctagg tatatggagt 360

atgtgagaga aggangtgtg tgggattcga gttctaacgc accagtgatt cattac 416

<210> 1216
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-C3

<400> 1216

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gacggaggag atcgccgtct ttggaagcat tcttagcccc cgttgacctt tccggcgtcg 120

cacttgttca aaccctagct tcaatctctt cggaggttgt ttcttgtttc acctctgttc 180

gattctcgtt tcaacgcaag aacgctcgtt ctttgattcg taagatcgag atctttgtcg 240

tattattcga atttctcgta gattcaaatt ggggctnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnntct gtttctgaat caacagcttt gctttgtctc aaagagcttt 360

atcttcttct ctatcgttcc aagattcttg ttgattactg cgctcaatct aata 414

<210> 1217
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-C7

<400> 1217

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tccacgcgat gcgtgcgtcg ctgctacggt ttcgaaaacg tttgaatcga cggtgaagtc 180

agatattata tgggagaagt ttcttccggc ggattatgaa tctctgattc ctccatcgcg 240

agttttctca tcgaagaagg agctctattt ctctctctgt aacgatcctg ttctattcga 300

cgatgacaaa aagagcgtat ggttagagaa agcgagtggg aagaggtgtc tgatgttatc 360

tgcgatgaac ctctcaatca tatggggaga taatcctcan tattggcaat gg 412

<210> 1218
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-01-Q1-B2-C8

<400> 1218

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tcgccacggc gaacatcttc gtcgtgatcc atgtcattgg tagttaccag atatatgcaa 180

tgccggtatt tgatatgatg gagactttat tggtcaagaa gctaaatttc agaccaacca 240

caactcttcg gttctttgtc cgtaatttct acgttgctgc aactatgttt gttggtatga 300

cgtttccgtt cttcggtggg cttttggcgt tctttggtgg attcgcgttt gccccaacca 360

catacttcct cccttgcgtc atttggttag ccatctacaa acccaagaaa t 411

<210> 1219

<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-D5

<400> 1219

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gtttttcttc tctcgttcct ccattttcta cagagagata tatcaaaaat tccattttct 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnttaatc atcgatcaag 180

ttgcttcaat cgcgaaaaaa tccatgaata aaactatgga atggaatgtg aatcaaagga 240

tttggttatg gtgatgacgc gatcttcgat tcgattcggt gattaaaaga tttggaagct 300

cagatctcaa gctcggattt ctaatttttg ttggattatc taacccaaaa gccaaaaaaa 360

aaaaaatgaa cggtggtgac gatgccgcta ctagtggtcc tcctccgtct ttagag 416

<210> 1220
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-E1

<400> 1220

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agcaatgctc gtctctttgc tcttcgattt tgagaaagaa tagtgcttca atgactgctt 120

cgtattcctc tgatgcttcg tcttcgtgtg agtcatcncc tttgagcgtg gngtcttctt 180

cgagctgtaa naaggttgtg atgcnaagtg ggtctgtctc ttctacaagg aanctgagtg 240

ttgggaaaga agaagagaag gtttctggtg attgcttcnc tgatggtcgt aaaaggtgtg 300

cttggatnac anctaaagct gacnngtgct atgttgcttt ccatgacgaa aaatggggaa 360

tttctgtaca tgacgacnaa gaaacttttt gagttaataa gcctctctgg tgct 414

<210> 1221
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-E2

<400> 1221

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gaggcattga ccaaggaact atcacaattg ctggagaaac gtggcgttaa gtgtttactt 120

gttatctttt tgtgggtctt ttgtttcttg aagccaaatt gtttgtgatg ttggtaatgt 180

tcttttatct tttcagttgg atgtcaagat aatttacagt tggggaaaga atgtcgatgt 240

tataccgcgt ggtgcaggaa aaggagaagc gcttgagtat cttctcaaga agctgcaggc 300

tgaaggaata ttcccggtca atactcttgc ntgtggtgac tctgaacatg atgctgaact 360

atttagcatt cctgatgttc acggtgttan ggtgagcaat tccca 405

<210> 1222
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-01-Q1-B2-E3

<400> 1222

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aattgatggg aagatttatg tgattggagg atgtgtagtt gataattggg ctcgatcgat 120

taactgggca gagatgtttg atataaagac tcaaacttgg gagccagtgg ctagtccagg 180

tatggaggtt cgtgagaaat ggatgcacgc aagtgcggtt atggaaggga aggtttacgc 240

aatggctgat cgaaacggtg ttgtttacga acccaaggaa aagaaatggg agatgcctga 300

gaagaggctt gatttgggat ggagaggaag agcttgtgtg attgagaaca tattgtattg 360

ttatgattac ttggggaaga ttagagggta tgattcaaaa gagangattt ggaga 415

<210> 1223
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-01-Q1-B2-E8

<400> 1223

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ggaatggctt cgatcaacgg agaaagaaga agtcttccgg tgatagaggt aagaaacgta 180

attctggatc gtcggattcc gtcgatgtga gcagagacgc cggcggttat cggtttcctt 240

tgaagcaagc tgtgacggcc ggagcactca ctttcaccgg tgacacgatt gctcagctat 300

cagggagatg gaaaaagaga accgctctta aacaatcatc ttctgagctt gacgaggggg 360

aattgtggaa cattttctca agaacatgac tgggattcgt gcgctgcgga 410

<210> 1224
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-08-Q1-B1-H9

<400> 1224

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cagattgtca ccgattctga cgaggatgta gacacagagg atgaaggtga ggagaaaatg 120

tttgatactg cagctttggc tgcgcttttg aaggcagcca ctggtggtgg aagttcagaa 180

ggtggcaatt ttaccataac atctcaggat ggcacgaagc ttttctctat ggatcgacct 240

gctggtttga gttcatcgtt aaggcccttg aagcctgcag cagctccacg tgcaaaccgt 300

tccaacatct tttccaattc taatgtcaca atggcagatg agactgagat taacttganc 360

gaaggaaana aacangaatt tanaaaaatt tgaaaaaccc cccttgtna 409

<210> 1225
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-16-Q1-B1-A10

<400> 1225

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ccttatcctt ctcttgatct ccatctccat agcttcggct gagattcgta aatcagagat 120

ccgatccgat gatcgtccaa tcatcccttt agacgaattc ggtttcactc acagcggtcg 180

tcttgagctt gacgcttcca agatctggct ttccaacagc aatcccgatc tcgatctctc 240

caaagtgggc ttctttctct gcactagaga cgcttgggtt catgtgatcc aacagcttga 300

agaagaagag atnacgtgcg ctctacaatc agatctcgtt aagcatgtgt tcaacttcaa 360

caatctcaan gggaggagat aagaagcaga ntctccaacg tattcaacgg agaacgaatg 420

cgg 423

<210> 1226
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-16-Q1-B1-A11

<400> 1226

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tcggctcgag ctcatttctc cacatcttga gaganaaaaa cagagcaagt atattagaga 120

tctcatggcg atggcggtct ccggagctgt cctcantggg cttggttctt cgttcctcac 180

cggaggcaat agaggtgcca ccgnattggn aagcggcgta ggcactggag ctcagagagt 240

tggnangaaa actcttantg tcgctgctgc ggctgctcag cctaagaaat cttggattcc 300

tgccgttaaa ggtggtggca acttccttga ccctgaatgg gtcnatggct cgctancaag 360

agatttcggg ttcganccat tgggtttggg gaaagacccg gcntttctga aatggtacaa 420

ntaaggctga antgatcaat gggcnaatgg gcnatnggaa ccggttcttg ggattttcgt 480

ccggc 485

<210> 1227
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-16-Q1-B1-B10

<400> 1227

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ttgagcttga aaacaatgat aaacctgctg aatcccgtcg actagccggt attctgctaa 120

agaattctct ggacgccaaa gattctgcca caaaagatca tctggtgaaa caatggtttg 180

caattgatgt tgctcttaaa tcccagatca aggatcgctt actaagaact cttggttcat 240

ctgccctaga ggcaaggcat acttcagctc aggttattgc taaggtancc tccattgaaa 300

ttcctcagaa gcagtggcct gaacttgttg gatcgctgct taacaatatg actcagcaag 360

gcagtcccgc acacttgaaa gcaatcaacc ttggnaactc cnaggctatg tccggtgaaa 420

aa 422

<210> 1228
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-16-Q1-B1-B11

<400> 1228

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agagctatat gaagaagatt acaacgagct tgtagacatt tattcgtttg ggtatgtgtg 180

tcctaagaga tgcttancgg tgagtatcct tatagtgaat gcaccaaccc tgcccaaata 240

tacaagaaag ttacatcggg gaagttgcct gactcattcc atctaatcca acacacggag 300

ggccaacgtt ttgccggtaa atgcttggga actgtgtcaa gaagantgcc tgcaaggagc 360

tcctaacggn nccaatccct tgccgcaant gaagaaaaaa aanttggggc ccctttaaa 420

<210> 1229
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-16-Q1-B1-B12

<400> 1229

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tgttccacga gtttacgaca aactatatgc cggtataatg caaaaaatat cagctagtgg 180

cttgatacgc aagaaactgt ttgattttgc ttataactac aaattgggaa atatgagaaa 240

aggattctct caagaagaag cttctcctcg tctagacaga cttatgttcg ataagataaa 300

agaagcatta ggaggaagag ctcatatgtt gttatcaagg agcagcgcct ctacctcgtc 360

atgtanaagg agttcctgag aatcantcct gcctccaatc ncctctcaag ggtaagggat 420

tt 422

<210> 1230
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-16-Q1-B1-B9

<400> 1230

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tgagtttcgg gaaccatggg ggctgttgtg caatttgctt ggatactata cctcttcaag 120

aaacagctat ggntaaaggn tgtgagcatg cttactgtgt gacgtgcata ctccgttggg 180

caagttacaa ggagaaacct acctgcccac aatgtaagct tccanttgat tttctcaatg 240

tccancgcgc tctcgatgga agcgttgaag atttcatgtt cgaggagagt gtatgcctcc 300

tcctgagggg catcatggtt ccagccactg ggaaacantg gagcgggttt canacaatgn 360

caaatttaac tatgaattcc anattccacc tgnattttga gggagg 406

<210> 1231
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-16-Q1-B1-C11

<400> 1231

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attcccattt cgcccctatc cgaaaaatgg ttgaagctca atcatggaca acgcggcgga 120

tgagcaatcc tagattcgac gccgccgcaa ccgccgcacc aaccatcgta gacatccccg 180

gaacaccacc acactcctcc gcttcttcac cactcaaacc cttcttcctc tcttccccca 240

ccgtatcacc aacaatcctc acggcggcta taatcgccgc ctggtttggc tcaaatatag 300

gagtcctcct cttaaacaaa taccttctct tctactacgg tttccgttac ccaatccttc 360

ctcaacatga cacacatggt tatcatgcgc cgcctanaag ctccgccgta atccaatatc 420

g 421

<210> 1232
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-16-Q1-B1-E9

<400> 1232

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tttcaatctc taaatttagt cggagaagat ttcacaatcc gaccagagtc ttcgccgttt 180

cagatatcag taagctcgtg acggagtttg atccgaagat tccattggag agagcatcta 240

ctccgccgag ctcgtggtac actgatcctc aattctacag tttcgagctc gatcgtgtct 300

tctatggagg atggcaagcc gtaggctact ctgatcagat taaggagaat cgtgactttt 360

tcancgggga aggcttggag atgttaaatt tggtggngtg taaagatgag aatggaaag 419

<210> 1233
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-16-Q1-B1-F9

<400> 1233

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tgcggaggag gggtttactg caattgcacg gtggtaatgg ctgcggttcc gcctnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc cacgtctcaa atatcagagg 240

atgggtggca acgttcctgc gttgctatct aacgatgctg cttcctgcat cgctgttgct 300

gcgaggatga tcgcgcttgg tacgcacgac ggtaccgtgc gtatcctcga tttantgggg 360

aaatcaggtt aaagaanttc gtgccacact gctcccggtt aatgacatca actttgac 418

<210> 1234
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-16-Q1-B1-G11

<400> 1234

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gctaaagtcc agagagctgt ttgtatgatc tcaaactcaa ccagtgttgc tgaggtattc 180

tcccgtattg atcacaagtt tgatcttatg tacgccaaac gtgctttcgt tcactggtat 240

gttggtgagg gtatggaaga aggagaattc tcaagaggct cgtgaggatc ttgcagcatt 300

ggagaaggat tatgaagagg tcggtgctga aggtggtgac gatgangatg atgaaggaga 360

agaatactaa agaaagaatg ttcctaaaaa ttggattttg tgttgggttt tccccaataa 420

<210> 1235
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-16-Q1-B1-H12

<400> 1235

ctcgagagac gtacttctat ttatcgacaa tatcttccgt ttcgtacaag caggatccga 60

ggtatccgcc ttattgggta gaatgccttc tgctgtgggt tatcaaccca cccttagtac 120

cgaaatgggt actttacaag aaagaattac ttctacgaaa aaggggtcca taacctctat 180

tcaagcagtt tatgtacctg cagatgattt gactgacccc gcacctgcca ccacatttgc 240

acatttagat gcgactaccg tactatcaag aggattagct gccaaaggta tctatccagc 300

ggtagatcct ttagattcaa cgtcaactat gctacaacct cgaatcgttg gcgaaggaac 360

aattatgaaa ctgcgcaaca agtnaaacaa acnttacaaa cgtttcaang gag 413

<210> 1236
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-A11

<400> 1236

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ctgcaatttt attgaatgga gaggatacaa ggttgtctac aaaagatatg caagcttgta 120

cttctgcatg tgcattgatg aggcggataa cgagttagag gtactggaga taattcatca 180

ctacgtcgag attcttgacc gctactttgg cagtgtgtgt gaactcgatt tgatttttaa 240

cttccacaag gcgtattata tactcgatga gctgttgatc gccggagaac ttcaagagtc 300

aagcaagaaa acagttgcaa ggataatatc agcccaggat naattggtgg gaatttccaa 360

aagaaggagg cganttccat aagtaatana aattgctcag gctaacaagt tgtccttt 418

<210> 1237
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-A12

<400> 1237

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tcttcttctc ttgggtaata tagatctctc ggcaatttgc agcttgttcc ccacgagctt 120

cctctgttca tcatcgtcct cgagcttcct ctgttcatca agctcctctg ttcttgaaca 180

tcgacgaaat cagaggctgt ggcagatgcg aacaaagcaa ttgagttgga tcattcatta 240

atcaaagctt acctaagaaa agggttacaa ctcaagtgtt ttgagaaaga agatggctaa 300

agatctcgga gatagattta tctaatgaag ttgtggatga agtgaataac ttccctcact 360

tccaaggncc taacaaaaac cttcggtcct cctcccttgg gattangttg tcaaaagttg 420

a 421

<210> 1238
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-B10

<400> 1238

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gaccggtgag atctgatagt aaagcaaaag ctaccgtacg tacctggttc aacgatcctg 120

tgcctcctcg agttcaaata ggggatgata gcaaattctc gatcttttc aatgtggtat 180

tcgggtaaaa taatcacaaa ggaatctgta gtcactggaa tttcaaccct tttcaataga 240

atacgtttgt ttgtttgttc cactgtaatc tcacggtgtg tcatgttaat gatccaaccg 300

aaagttcctt aaacggatct cctttgtacc aaaaaactgt ctggtagaac taaaattgaa 360

ccgataaatg gatgagccgg ttcattgaaa aaaaan 396

<210> 1239
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-B11

<400> 1239

ctcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnctaa caagtttccg gagaggcaac cgatcggaac ttcggctcaa agtgacaang 120

actacaaaga gccaccanct gcgccgttgt tccgagcccg gcgagctaac ttcaagg c 180

ttctgganan ctgggattgc tgantttaaa gctacgtttt tgttcctgta catcactgtt 240

ttgactgtta tgggtgtnaa nangtcancg aacatgtgtg cttccgtcng aatccaaggt 300

atcgcttggg ctttcngtng gaagatcntc gntctcgtcc antgcaacgc tggr cc 360

ggtggacana ttaaaccaac cggttacttc ngtttgttcc taacctagga ctttcn 418

<210> 1240
<211> 418
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-B9

<400> 1240

tcgagtgcag aggcatttgc ttgcattgag agagagttgg atttgtcgct agagaccatt 60

ttctcgtctg tatctcctga gccaatcgca gcagctagtc ttggccaggt ttacaaagct 120

cagctgaggt attcaggtca ggttgttgct gtcaaagttc aacgccctgg gatcgacgaa 180

gccattggcc ttgattttta ccttattaga ggagttggga aactcattaa caagtatgta 240

gacttcatca ctaccgatgt ccttacccct atcgatgagt tcgcctgcaa gagtttatca 300

ggagctaaac tatgtccagg aggcccaaaa tgccaagaag gtttaaaaaa ttgtatgcag 360

atnaagcaga tgttccttgt gcctgaatat aatctgggat acacgagccg caaaggtg 418

<210> 1241
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-C10

<400> 1241

tcgagttttt ttttttttta aggagaaaga tgtttttaag gcttgagcag agtcnagaca 60

nnaaatatta agagcacaga ggtttantan agtagataaa tcatcaagct gtgcacaatc 120

ataatcatca naaacacttc aatctttttt cacagttttt gagcaaaggt tatggggatt 180

ttgagatcga tttggtggca gaaacatcgc gtaacanccc tccccccctt catctagatc 240

ctcaggcctc gtccatctgc tcntgcatat cggaggtcca aagggttaaa ttgtccctca 300

gcanactgca ttatganagt gctgtcnttg taggattcct ctcccaagag tgtcaaagct 360

cagctatggc ctccccaaaa agcccggttt ggccatgtta caagccttgg nctgaagaaa 420

ttg 423

<210> 1242
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-D10

<400> 1242

gagaaaatta aacgcaattt attgagaaaa tacaaacagc gtgcactatg aagaagacgt 60

cgaagataca atttcttttc aatctctgca tcatatttgg ggttgtagta ataagaagat 120

gtaacgcaac gacatacttt gtaggagaca gctccggttg ggacataagc tccgatctcg 180

agtcttggac ttcaggcaag cgattctctc ctggtgatgt tctaatgttc caatactcat 240

cgacgcatag tgtatacgaa gtggctaaag acaactacca aaattgcaac acaacagatg 300

cgattcggac gttcacaaac gggaacacga accgtttgct cctttccaaa accggggaaa 360

cccggttctt tgtatgcggg taataaggct ccaattgcct tcgcccggta tgaaggttac 420

naatca 426

<210> 1243
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-D11

<400> 1243

cgagtctcaa atgaacctcg gaatcataat gagctacttt aatgctagat tcttcaaatc 60

aagtgtaaat atatggttcc agttcattcc ccaaatgata ttcttgaaca gcttgtttgg 120

ctatctctca gtcctcatca tcataaagtg gtgcactggt tctcaagcag atttgtatca 180

tgtaatgata tatatgttcc tgagcccaat ggacgagtta ggagagaatc aactgttccc 240

tcaccagaaa acattacagc ttgtgcttct ctttctggct cttgtttctg ttccgtgtat 300

gttgcttcca aagccgttca tcttgaagaa acaacatgaa gctaggcatc aangncaagc 360

cgtaagcanc tcctgacgaa gacagatgag aagtcctcaa gtttnaaaca aacg 414

<210> 1244
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-E10

<400> 1244

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atgaaaatga tgtaactaaa gagaaacatt ttcatagggg aaggaagaga gagcggttca 120

atggacagag acagaaagag ggtgaaaatg gagaaggaag atgacgaaga agaaaagatg 180

gagaagttgt acacagtgct taaaaacgca agggaaatgc ggaaatatgt caacagctcc 240

atggagaaga agagacagga agaagaagaa agagcaaggg ttcgtagatt cccttcgttt 300

cagccagaag atttcanttt catgantaaa gcagaggcca acaacattga aaaagcagct 360

aatgagagcc tcaacatcca accaantata tggctctaag gaaaagcaaa gaangga 417

<210> 1245
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-E12

<400> 1245

ctcgagtgga tgttggtctt agctctcatg tctatgagac cgagacgttt ctcaatgtgg 60

tcccgagtaa agtagctaag aagtgtttga aacgagggga tagtatgtgg ggagcttggt 120

ttttctttag cttctacttc agaccggcgt tgaatgagaa atccaagtct aaggtcattn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnttt tactgggttt gataaatctg 240

atctcaagct cgatgttttt cttgttcagc atgatatgga gaacatgtat atgtgggctt 300

ttaaggataa acctgagaat gcgcttggga aaatgcagtt gagaanctat atgaatgggc 360

attcctcgtc aaggtgagct ccgtttcccg tttaattgcc gganaa 406

<210> 1246
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-F10

<400> 1246

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ctcaccatgt ctggttatcc tccatcangc caaggttang gttacggcgg taatccacca 120

cctcctcagc caccgtacgg atcaaccggc aataaccctc ctccgtacgg atcatccggc 180

agcaatcctc ntcctccgta cggatcatca gnctcctcac cgtacgcagt tccctacgga 240

gctcannccg ctcnttacgg tgnaccaccg tcancacngt acgcgtctct tccaggagat 300

cataataagc cgcacaagga gaancctcac ggcgcctcct acggatctcc atctcncggt 360

ggctacngtg gtcaaccatc gtccggaact ttcgactaag gtgggtacgg angaacg 417

<210> 1247
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-F12

<400> 1247

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cgaaattagc cacggcggcg aggttaattc cggcgagatg gacctctaca ggagcggagg 120

cggaaacaaa agcttcctct ggcggcggaa gaggatcgaa cttgaagact tttcagatct 180

atcgatggaa tccagataat ccagggaagc cagagcttca aaattaccag atcgatctca 240

aagattgtgg tccaatggta ttagatgctt tgattaagat caaaaacgaa atggatccat 300

ctcttacttt ccgtagatca tgccgtgaag ggatctgtgg ttcatgtgct atgaacattg 360

atggatgtta cggacttgcn tgtttgcaaa agantcaaga tga 403

<210> 1248
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-F9

<400> 1248

tcgagggaag gaaggaagag tgagagatga tgggtatggc gaggaagata agcaaagagg 60

aagttgtaga gaagcttaag gacgacggag attttgatcg tctccgtctc aaaatcattc 120

gccgcctcaa agaaaacgag gatttacgga ataatatgat atcagttgtc aaggagtcaa 180

catctttgaa acgacatggt gctcaaaata tgaaaaccag gcaactctct gatgcgatat 240

tcgaagaagt cgggagcaag atgctaagcc agctctcaga tggtttatgg gggataataa 300

gatcagaaga cgggatgaag aatgaaatca gagaaaccgt tcaatccgtc tacgccacat 360

tatcctaacc cgagaaggca anaaacgcgg aacatccgct agagaaatgg gacataag 418

<210> 1249
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-G9

<400> 1249

cgagaaaaac tttctttcaa aatcgttctc tgaggcattt taacgaacag atggcggact 60

taaacggtgc gtattacgga ccatcgattc caccgccgaa naaagtctct cacagccacg 120

gcagacgcgg cggtggatgc ggttgtttag gtgactgtct tggctgctgc ggctgctgta 180

tcttaancgt catcttcaan atcctcataa ccatagccgt cttattacag catagctgct 240

ctaatcanct ggctcatttt cagacncann gctgtcaaat tcgatgtcac cgaanctaaa 300

ntcnccgaat tcanantcga accaaccaag aanctccgat acaatctcga ttccaaattc 360

aaaatccgtt aaccttaacc gncggattg 389

<210> 1250
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-H12

<400> 1250

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ttcttgctat ttctcacctc tgtataagca agctctctgc tgtttctcct catccaagtt 180

gggtttatca gttcagctgt gtagaaattc aatcgtctga gaagtccgag gtttgatgtc 240

tgatggtttt aagatcgaaa ggatttgact tttatcaaga ttagtaatga gattagattg 300

ttttgaggt tattgtaatc agatcttgat gccaattccg ggtgaaagag atttaagaca 360

anttagggaa tgggtaatac ntggtgttgg accaagcaaa aatn 404

<210> 1251
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-17-Q1-B1-H9

<400> 1251

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caagaaaaag agaacggctt agattcatta gttgtggagg atggatcaaa ttggagcatg 120

ggacagagac agttgttctg tttaggcaga gcagttttga gaagaagcag agtattagtc 180

ctggacgaag ccacggcatc gatagataat gcaacagatt tgatacttca gaaaacaatc 240

aggcgagaat ttgcagattg cactgtcatt acagttgctc accgtatccc taccgttatg 300

gattgtacaa tggttctctc catcagcgac ggacggattg tggatatgat gagccaatga 360

attgatgaaa ggatganaac tcctttgttc gggaaanctt gtgaaangag tattgggc 418

<210> 1252
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-A1

<400> 1252

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catggttcgc aacaggccat atgaccccgt tccttttttct tgccaacaaa ttggctgaga 120

aaggtcatac ggtcactttt ttgattccca agaaagctct gaaacagttg gaaaatctca 180

atctgtttcc acacaacatt gtctttcgct ctgtcaccgt ccctcatgtg gatggtctcc 240

ccgttggcac agagacaagt ctctgagatc ccgtgacatc agctgatctc ttgatgtctg 300

ctatgggatc tcacacgtga tcaagttgaa ngtgtggtcc gagccgttgg aaccggacct 360

gatcttcttt gacttcgcnc attggattcc aaaggtacca aaanactttg gccttaaaaa 420

<210> 1253
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-A12

<400> 1253

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aggaaaaagg gtgtgacttt tggttcgttt aaggtttcca aggacattaa atatgctgat 120

aagcagccca ttataccatg gggtccaagg ttttccaggt cctccaagaa tgatatgttg 180

atcaacctag caatatcagt tgtgtttagt gcatggattg cgataaaacg taatgttgaa 240

tacaaaccgc tgcagttcat gtcttttgta tttgtttaca agaatttttg agaaattaaa 300

atcctttgaa gcaccttcat ctccaatata taacgaggaa tgcgaagaaa gtggacgggg 360

attgagaatg ggaaagaagg ctcctcngtc cccttcccta anttttgg 408

<210> 1254
<211> 353
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-A3

<400> 1254

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aaagggttac tcaggaagag cttaagcata cntgagagaa agttccctaa cgaanacgct 120

ttcttanaat ccggtttatc gaggaagtct ccgcgagagg tcaagaaacc tcanaacgac 180

gatggtgaat gtcgtgttac cgcctctgtt ttcctcagca cctttgttgc cgtatcaggc 240

tccttctgta ccggttgtgg ggttggtttt tcancgggtg canaaacagg gattaccana 300

natttanctc tctccgttgc anaatactca atgttcgggt ccatcttgac atn 353

<210> 1255
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-B12

<400> 1255

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aatagattcc atctaaaaaa aattgggttt tgctcactcc cttttctttc acatcacaat 120

gaaaaaacaa atattaatgc aaaagtgatt caataaccct acaaaccgtt cgtttggggg 180

tgatttttt agcacttggt gaaaaattga attgtttagt ttgtgttttc caaactgata 240

agagctcttt tcttgtttta aggtttgagg gcgagggcga gaccaagctt tggtgaagag 300

gtcacagcct ttgagtcata ctcagctgag aaagtgatgt gcgacttcgg tctccaatct 360

ctctggacca acatccctgc tttcccactg ttanaaaatc cg 402

<210> 1256
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-B6

<400> 1256

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnccgc 120

tggacgtcga aacaacctgc ctcgtccaaa cctcagaaga cgatgtaagg tcaccgcttc 180

acgggctaat attgaacaag aaggtaacac agtgaaagaa cccattcaga atattaaagt 240

aaagggatac ataacgggcc aagaaagagt ttctggaggg cataacttgg tccanaagtc 300

ctcgatgaca tttgctgata tccgcggnaa gattaattgg ctcctccaag ctttattaag 360

cgccaagact ggaacaacgg gattacggta gaaagactac gcacaacgtn gtatgggggc 420

cgaagc 426

<210> 1257
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-18-Q1-B1-B8

<400> 1257

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ggaagctaaa actgttactg acaagcctac tttgatcaag gtcactacta ccattggtta 180

tgggtctccc aacaaggcga actcatacag tgtccatgga gctgcacttg gcgagaagga 240

agttgaggct accaagaaat aaccttggat ggccgtatga gccgttccag gtacctgacg 300

atgtaaaaag ccactggagt cgtcatacac ctgaaggagc tactcttgaa tctgactgga 360

gtgcaaagtt tgcagcatat gaaaagaagt acccaagagg aagcttctga g 411

<210> 1258
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-B9

<400> 1258

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ttctctctct tctcggcgga tgttcgccgt cttaccggaa tcatcaggtt tgagaatccg 180

tctttctctc tctccggctt cgttgacctc gattcatcaa cctagggttt ctcgattacg 240

aagagccgtc gtcctgtgaa gctcaggaaa ctactaccga tnttcantgg ggncaangan 300

tcnacatggg gancncaagt tctnaaangn aantggggcc tgtanttgtc nacttttggg 360

ccccatgggg nggggacctt gcaaatatga tnnattccgc ttggtaaaca tat 413

<210> 1259
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-C10

<400> 1259

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catatcatga tgataccata cccacttcaa ggtcacgtta tccctttttgt ccacttagcc 120

atcaaacttg cttctcatgg ctnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnngcc ggtgacatct tctccgccgc tcgcagctcc 240

ggccagcacg acatacgtta caccaccgtg agcgacggct tcccttttaaa ctttgaccgg 300

tcactgaanc atgaccagtt tttcgaangn attctccacg tctctctgcc cacgtgggat 360

gatctcatcc gncaaactct cccggcgtga tgaatcctcc cgtgaanttg cttg 414

<210> 1260
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-C12

<400> 1260

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atttttgttt ctctcgatcg attcaacacc taaagattga agcttttgct cgtgggttat 120

gtaaagtttc caccttttcgt cttctttctg atctgtgagc aaaaatggga caacagcaat 180

caaaagggga attgctgtat cagcaagtta gttatggtaa ctctgaagga attcgagctc 240

ttcatcgaga tggtggagac cttgagtgga tggatagaga aggaaaaact ccgttgatct 300

tggcttgtat gaactccgag ctatttgatg ttgctaagac tttgattgaa ttgggttcta 360

actgtnatgc ntaaccgtcc tgggtccgtc aaggcnggga actcctcct 409

<210> 1261
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-C5

<400> 1261

ctcgagtgat gaaggagaaa gtaccaacta aggacttgta tttgaatcta aagtcatcgg 60

acacatgggt cgctgaatat agaaagtgga tggacaaagt tggtcatggg atgccttacc 120

atttcgggca taggaccata tctctcccca aagtccctcc tgtcgtggaa catgccccgg 180

cagggctcat tgcagctctc tctgcttctt accctgcaaa aggcngaatt gggactatgc 240

atcntcccaa tttgggtaac cgggtacttc atacatanta atcaattgta caagctgcaa 300

caacgtgatc aaatcctttg aactctggaa aaatancctc cnggncaang ggaattggat 360

ttgaacggnt tgggcaatcc nggnngntta ctaaacattg gaaggctgtc ccggttaa 418

<210> 1262
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-D1

<400> 1262

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tggcaaaatt gtttcacttt cgctctaaaa acttcatctt cactttctct cctcctccat 120

ggcggacggt ggggctgaac ctccagctcc accatcatcg ataaacgccg gtgaatttct 180

cttgtctatt ttgcacggaa gtccttcgcc gtcgtcacaa ggtcctcaag catcatcaag 240

tcattcgctc tcgatncaac catcgcaacc attgggtcct aacgtcaata atccttttcc 300

tccgtcnaat tggnaatcca acgggcatcg aaccaatnat caaaaccctc cttcctgggc 360

aatccccttt tcaactcctc aaaatccttt ccccaaattc ctaagggttc cccaaatt 418

<210> 1263
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-18-Q1-B1-D10

<400> 1263

ctcgagccgt tctatatatt tcccaaactt agtgccactt agacacaata agaaaaccgt 60

taacaagaag aaaaaaaaaa gatcgaaaat ggaatatcaa actaacttct taagtggaga 120

gttttccccg gagaactctt cttcaagctc atggagctca caagaatcat tcttgtggga 180

agagagtttc ttacatcaat catttgacca atccttcctt ttatctagcc ctactgataa 240

ctactgtgat gacttctttg catttgaatc atcaatcata aaagaagaag gaaaagaagc 300

caccgtggcg gccgaggagg aggagaagtc atacagagga gtgaggaaac gggcgtgggg 360

gaaattcgcg gccgagataa gagactcaac gaaggaaaag ggataagatg ttg 413

<210> 1264
<211> 280
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-18-Q1-B1-D11

<400> 1264

cgagaagaac aacgacgtcg tttctcttaa cggaaaatgc aacggcggta tcggtgaagg 60

cgtcgccgtt aatgcggctg tggcggttgc cgtgtaatgc agcttctcgg gttgataaca 120

tttttatagt aattaataca tacatttacc tttgggtttt gtgattgttg tgtaaaacag 180

taaaaaaaat gatttcgttg tgctatgtaa actttgtaag caaatactct tcttcctaaa 240

gtaaaaaagt ttgattgttt taaaaaaaaa aaaaaaaggg 280

<210> 1265
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-D2

<400> 1265

gagtttctcc tcaaaatatc agatcgataa ccaacaagcg aaactagggt tctctaatct 60

cgacgaagat ggcgatgcag aaagctaagg agatcgttaa cagcgaatca gtcgttgttt 120

tcagcaagac ttattgtcca tattgcgtga gagtgaagga gcttttgcaa caattgggaa 180

ccnaattnca aggccgttga ncccaaaacn gaangtgatg gtagccaaat tcaatcaggt 240

cccgcanaat gggcangnca acgttaccgt gcctaatgtg nttaataagg anggaaatca 300

acatcggtgg gctggtgatg caacatcaaa cntgcataaa gaatgggaaa tttggttcnn 360

cggttaactg aaaccgggac catttcaagg aaagactgna acaa 404

<210> 1266
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-D4

<400> 1266

cgagaaaaaa aaaaaaaaca agtctaagca ttaaattgag aaaacanang tacattatcc 60

gtacnggntc cggtcagatc taattattaa ncgcatccnc ctgggagcaa acccgacccg 120

ggaactcgct aagtcgtata caacccggaa accctgttgc tggatattcc caattatgga 180

taatccgccc atcgtaccgg gaaacncaaa acaaaacttn ccgttgggan ccacagggat 240

nangnaattc gncgccggaa gtgatacgtc agctccacgg aaatgtaaaa ncaccgtcgg 300

tactttaacc tcgttcatat tggagagatc gaaacacgtg tcnaagagtg agaaatccgg 360

agctcntttc aatgtcntag ctcccgancc gggaagcgtc tctcaaanca ata 413

<210> 1267
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-D5

<400> 1267

cgagtgagct aatcccgaag tcaactcatg tttgtagagg atggagagct gcttgttgcg 60

atccgattct ttggaagacg gtggatttgt caaacatgag atctagtttc atcaagatcc 120

cacatagaca taaggctcta atgggatctt gaaactctcc atgaacctta gcggaggaag 180

cacgaggacc ttgatttttc atttcaactt gttcttgagt gatgatcagc ttacttacac 240

cgcagaaagg tgtccanggt tganacgggt cgtcctaacg gcttggaaca aaataaaaga 300

aaactggtat atgcaaagcg ataagaaacc ggaaaagatn taaaagtccc taaacaattg 360

ccaagccatc cgcaaacccg ccntaacccc ntaacagaaa nttgccaaga actgcaa 417

<210> 1268
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-D8

<400> 1268

tcgagcggct cgagcggctc gagcggctcg agtnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnng ggacatggac gccattgatt ccgtcgtgga tcctcttaga gactttgcca 120

aggacagcat tcncctcgtt aagcgttgtc ataagccaga tcgcaaagaa ttcacgaaag 180

ttgcagtccg tacagcaatc gggttcgtag taatgggatt cgtgggattc tttgtnaanc 240

tcatctttat tccaatcaac aanatcatcg tcggtgctac ntanattaca aagggaanat 300

aaangatgga gaagggtant tacaactttg ttgttttcat ganagacact tcacaatttt 360

tttccttttt ccntgttcaa natactcata aaagaaggaa acattttgtg aacc 414

<210> 1269
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-18-Q1-B1-D9

<400> 1269

ctcgagggag aattcggaat attagaaggg agatcatttg cgttgataca cccaattgtg 60

atgggaggtt tatttgcata cactctttgg actggttact taggttggca atggagacgt 120

gtccgtacga tacagagtga gattagtgat ctcaagaaac agcttaaacc aactcctgtt 180

tcccctgatg gttccacagc cgttgattct tcgtcgcctc cttctacgac tgagcttcag 240

atccaacggc taactgaaga gaggaaagag ttggtcaaag ggtcttacag agacaaacac 300

tttgacgctg gctctgtttt gttaagtttc ggtgttttgg aaactgtctt tggtggtgtt 360

aacacttaac ctcggtactg gtaaactcct ccccggtcct caacct 406

<210> 1270
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-E1

<400> 1270

tcgagttcca agcagagatg acggtgaaga taaggctcgc gcgtcttggt tgtaaacacc 60

gacccttcta tcgtgtagtt gtcgccgatg aaaaatcgcg cagggacggt aaacaaatcg 120

aggtgttagg cttttatgat ccactccaag gcaaagaaga tgcggataga gtgagcctca 180

aattcgacag aatcaagtac tggttatctg ttggagctca accaacagac acagtggaaa 240

gcatgctttt caaggccggt tttgatacca ccaaagccct aatggtaatg gtccggtccg 300

aaaaatgggc aaaaatccaa cgaancaaca tgtttcaacc attacanggt gaaatccttg 360

aactaagaat gttgatgcct ttaagcaaaa aaaaaccctt tgtgtccngg tg 412

<210> 1271
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-18-Q1-B1-E10

<400> 1271

ctcgaggttt ttgttttctt cttctctact tgagtaatca tcaacgatta tggcgtcaag 60

tcagtggacg aggtcggagg ataagatgtt tgagcaagct ttggttcttt ttcctgaagg 120

atctcctaat cggtgggaga gaatcgctga tcagcttcat aaatctgctg gtgaagttag 180

ggagcattac gaggtcttgg ttcatgatgt tttcgagatt gattctggtc gagttgatgt 240

ccctgattac atggatgact cggcggctgc ggcggcgggt tgggattccg ctggtcagat 300

ctcttttggg tctaaacatg gcgagagtga acgcaaaaga ggaactcctt ggacagagaa 360

cgaacacaaa ttgtttcctg atcggattaa agagatatgg gaangg 406

<210> 1272
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-D2

<400> 1272

gttttgtttc aactattcga tcaaaacgat accctgtgac cgccttccaa tggcatccag 60

agaaaaatgc attcgaatgg ggatcatctg anatcccaca ctctgaggac gcaattcagg 120

tgactcaaca tgctgcaaat tatctagtca gtgaagccag aaagtcaatg aacagaccat 180

cttctgagaa agtgctgagc aatctcatct acaactacaa gcctacgtac tccggataca 240

aagggagcgg tgacgacgag gtttatattt tcacgtaaca aagatccctt ctcctgtgtg 300

ttttcgccaa aaacatagca atttatatta nttactaaaa anagnnggtc naangnaaaa 360

agggcc 366

<210> 1273
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-D6

<400> 1273

ctcgagcaga tataaaaacc ctagatttct tctcttaaaa cccacatcga atctcaactc 60

agaaccaaca atgctccaac ctttctcttc ctcctctgtt ttctcgagaa tcctctggac 120

tttcttggtt taagaagatt cgttgttgaa tcagagagaa agaaagcatc cattttttcta 180

tcattgcttg cttgctatgg aattgggtaa atctcgattc tacttatgtt gcaattgctt 240

ttctcctgtt agattttccg attattcttt agctggaagt gattatccag acgccatctc 300

catcactttc aattgtattc ctataccttc tccgaagaat cctcgtaatt cncgaatcga 360

tgttataaac ttcaaattcn cctccaaatc ctgaaacga 399

<210> 1274
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-D7

<400> 1274

ctcgagccga gtaggacgtg acaccgagaa agaagggaag ggatactttg aggataggag 60

gccagcttca aacatggacc cttacgttgt tacttccatg attgcagaga ctacactcct 120

ctggaaccct tgaaaggatg atccgtaact cttgaagttg cttctgattg ggtttttttgg 180

aagttccaag cttgtctttt ctctacagtg tgtattaagc aattgtaccg gttgacactg 240

ccggagtttg tgatttgggg cctttctttc tttttcntct ttttataatc ctttggggtt 300

cctgtgggta agagcaaatt ccnggtttgc ccngttgttt gacnttaatt gaaaaccttt 360

ggaattggta acnaataana caatcctgaa aaaggctcct caagtttcaa atgg 414

<210> 1275
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-D8

<400> 1275

ctcgaggcag cagctcagag actgggagca gttgatctct gcggatggta tcttcactct 60

cggattcttt acacctaaag actcatctac ttccgaactc gggtcagctg gtcttagata 120

tcttggtatt tggcctcaaa gtattccaat aaatctagtt tgggtgggta acccaaccga 180

atcagtttct gattcatctg gttctctatc cattgacacc aatggggttc taaagataac 240

acaggcaaac gctattccaa tcttggtgaa ccaaagacca gccgcgcagc tttcattggt 300

cgggaatgtg tctgccattt tactcgatac ggggaacttt gtgggtccga gagattaagg 360

ccaaggaagg agttccgggt ccgtgttcna ttgcaaaa 398

<210> 1276
<211> 379
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-E5

<400> 1276

ctcgagcaaa accttctcat gtcttcttct ctcctcgacc tttgaggtgg aaaattaaat 60

atattccctt agnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnc taatttcctt gttgattcat cgactagatc taattcttct cacaaaagac 180

tgagtgtgtt ctttctttca aatctttcaa aaactagggt ttttactgtc ttgaaatcat 240

angtattctt ctanatttag canaaagagc acgatttact ttccattnca ntcgtcttgt 300

nactctctct ctcttcntta aagtctnccc tttttagcan ggattctctc tctcacaaaa 360

attattccaa agggnttct 379

<210> 1277
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-E7

<400> 1277

cgagattcct tctgaaatat tcatcgcaat tcgtatcggt ttaaagtaaa aaagcaatgg 60

gaggtggtaa agacaagcat catgatgagc aagagaaagg atttcatggt tttccaggag 120

gtggacatta cccacctgct caaggaggtt accctcctca aggttaccca ccacaacaag 180

ggtatcctcc agctggaggc tacccacctg ccggatatcc tcctggtgct taccctgctg 240

cgcccggtgg ttatcctcct gcacctggag gttaccctcc tgctggctat cntgcacctg 300

gagctcaaca ttcaggacat tctggtggtg gactcngagg catgatanca agtgcanctg 360

gtgcaaccgc aacaacttat ggagctcaac aatgttggtc acgcctct 408

<210> 1278
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-E9

<400> 1278

ctcgagcaaa gataacgaca ttaacaacat ccnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngt cagaccctgg atncaaagat 180

nacgacattn acaacatcct tatcggtcnt tanggatccc aatatagata caaggaaatg 240

cggnagatna taantcccgt aggcaggaag caactggaac cgatgttaca aagctaccgc 300

aaggttgtgg gcgctgagct ttcanagaga atggtgtatg aaatcaactg aaagcttcaa 360

caataccaag ctcattgaac tttggtaccn attgt 395

<210> 1279
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-F1

<400> 1279

gagcacaata ttctttcttc caaattttct catttctcat gggcatatct caagtacact 60

attgcaatgg tgaccagaac ttagaagcaa accttctaga tcatgaggaa actgaatcat 120

tttcagtacc tcaaacgaag aactgtaaga ggtggctccg tgtctccata tacgcaatct 180

ttgtcatctt ctgccaacca cttgctacag ttctgggtag actgtactat gaaaatggag 240

ggaaaagcac atatgtggta acacttcttc aactcattgg cttccctgta ctgattctct 300

tccgcttctt ttctcgaatc angcaaccca aatcaacaga tacaaatttc aatcaatccc 360

cctccttnaa caaccttgca tcggtttaac tggggcactg gactgct 407

<210> 1280
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-F10

<400> 1280

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ggggatgctt tctactctct gtttggtttc cttcattgtg actttctatt ttctgggttt 120

gtttcaagtc atgatttttc cgataccctt ttgatttttc ttgctatttc tcacctctgt 180

ataagcaagc tctctgctgt ttctcctcat ccaagttggg tttatcagtt cagctgtgta 240

gaaattcaat cgtctgagaa gtccgaggtt tgatgtctga tggttttaag atcgaaagga 300

tttgactttt aacanattaa gtaatgagat tagattgttt ttgaaggtta atggaatcaa 360

gattntgatg ccanttcctg gtgaaagaga attaaagaca agttaaggaa tgggtaatac 420

ntgttgtttg gacca 435

<210> 1281
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABLI-09-Q1-B1-F11

<400> 1281

ctcgagcacg aacgtgtgaa ttgggttaaa aaattcatct cattgatcca aacttgaaac 60

cctaatttcg aatctctttg ctgatttggt gagatctcaa tttcggaaag aagatgacga 120

aggatttcgc agttccacct gtagttttcc cctccggtgg atcttcangc ggtgctaatg 180

tccancaacg aagattccca gcgacaacgt ttnaaancgg cgggttcctc ttctttcgca 240

aacccccttca agtcaatcga cattggnttt cgcaaacgcg ttttccggta aaaatggcgg 300

gagcaattgg ggggaaaaan gcntccncnc nnccttngg gggggggtca acctccttnt 360

agaatanggg gncattttnc aannagatcc ggatccancc nattaaaaac tggggaaaaa 420

an 422

<210> 1282
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-F12

<400> 1282

agnagcctat agatagaaat gacgtcnnan gcacgcgtac ataanctcgg aattcggctc 60

gagagaaacc tgtctgattt gctccgtcgc ctaaaaagtc taaaacccta agtgtctccg 120

cctcgtagct ttacccgatt caacgaagag tgaattcgcg tgagctcaag cagtatcgaa 180

atctaccaat catggcgagt caaacaccga atctcgagtg tcggatgtac gaggcgaaat 240

acccagaggt ggatatggcg gtgatgatcc aggtgaagaa cattgccgat atgggagctt 300

atgtttctct cctcgagtac aacaacatcg aaggcatgat ccttttctcc gagctctctc 360

gtcgtcggga ttcgaaatgt tagcantttg attaaggtcg gaagaattga ncctgtcatg 420

gttctccgtg ttgacaaaag agaaangtta cattgatctg agcaaactta a 471

<210> 1283
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABLI-09-Q1-B1-F5

<400> 1283

cgagcttttg caaaggatat cgcatcatca agaaccttct gtgtctatga agaggtggag 60

cgtatgcgtg aagcagggct cattaaagga ggttctctgg ataacgccat agtttgtagc 120

gctgagcatg gatggatgaa tcctcctctg cggtttgatg atgaagcatg tcgacataag 180

attcttgacc taatcggtga cctctccctt gtttcacggg gcggaaatgg aggactcccc 240

gtggctcaca tagtcgcata taangcgggt catgcactgc acactgactt agcacgtcac 300

cttacatgga ctgaagagta tgtgctcgtt gtcaaccata tcccgcaaaa agccttgatt 360

gttccggttc cttttgggat ccttaaccaa aagatggtaa caat 404

<210> 1284
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-F7

<400> 1284

cgaggctgag atgaaggcaa aggcacaact accatcagag aatttaccaa aatttgaggt 60

gaatgatttg gagagcctaa ctgggaagta tgataccgtt gtatgtctcg acgtgttgat 120

acattacccg cagaacaaag cagacggaat gatcgcacat cttgcttctt tagcagagaa 180

gagagtgatt ctgagttttg ctccaaagac tttttactat gatatcttaa agagaattgg 240

agagcttttc ccagggccat caaaagctac aagggcgtat ctacactcgg aggcggatgt 300

ggaaagagcg ttgggtaaag tcggctggaa aatcagcaag agaggactca ctaccacaca 360

gttctacttc tcnangctca tcgaagctgt tccaatgtag acca 404

<210> 1285
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-G10

<400> 1285

ctatagaaca gacatgacgt cccanncacg cgtacataan ctcggaattc ggctcgaggg 60

ttaacgctac agttgcgaga aacattgccg gcatttgtgg aaatgtcatc tccttgttct 120

tgttcttatc tcccatacct acgtncataa ccatatacaa gaagaaaaag gtggaggagt 180

acaaagctga cccatactta gccacggttc taaattgcgc actatgggtc ttttatggct 240

taccaatggt tcaaccagat agtctccttg tgatcaccat aaatggtacc ggtttagcca 300

ttgagctggt gtatctcgct atcttcttct tcttttctcc aactagtcgc aaggtgaaag 360

tggggctatg gttaatanga gagatggtgt ttgtangaat antaaccaca tgcacattgc 420

tattgttcca cacacataac cagagatctc ctttgttgga atctt 465

<210> 1286
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-G11

<400> 1286

tatagataag anatgacgtc nnatncacgc gtacntaanc tcggaattcg gctcgagaaa 60

aaaaaaagat gagagaagga tctcatgtta ttgttttgcc tttcccagca caaggccaca 120

taactccaat gtcccaattc tgtaaacgct tagcctcaaa aagtcttaag atcactcttg 180

tcctcgtctc cgacaagccc tctccgccgt acaaaacaga gcacgacaca atcactgtcg 240

tccccatctc caatggtttc caagaaggcc aggaacgatc agaagaccta gatgagtaca 300

tggaaagagt agaatccagc atcaaaaacc gcttaccgaa gttgatagaa gacatgaaac 360

tatcgggaaa tcctcctaag ggctcctgtg tacgactcca ccatgccgtg gcttccngga 420

tgttactcat aattaagggt tgagcngtgc cgttgttttt cacgcaagcc t 471

<210> 1287
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-G2

<400> 1287

atgatttttg ntcccagaag agataaacgt cgganccacg cgtacgtaaa ctcggaattc 60

ggctcgagat gagttggata tgtttaatac aaaatttctc ntgtgaaaaa aaaaaaaaaa 120

agggcggccg ccgactagtg agctcgtcga cccgggaatt aattccggac cggtacctgc 180

aggcgtacca gctttcccta tagtgagtcg tattagagct tggcgtaatc atggtcatag 240

ctgtttcctg tgtgaaattg ttatccgctc acaattccac acaacatacg agccggaagc 300

ataaagtgta aagcctgggg tgcctaatga gtgagctaac tcacattaat tgcgttgcgc 360

tcactgcccg ctttccagtc ggggaaacct gtccttgcca actggcatta atngaatccg 420

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<210> 1288
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-G5

<400> 1288

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cttggttcat tcatggtagt ggcgattgcg gctgatttaa caccggagcg ttattggagc 120

actgctttac caaacactcc cattcccaac tctctccata atcttttgac tttcgatttt 180

accgacgaga aaagtaccaa cgtccaagta ggtaaaggcg gagtaaacgt taacacccat 240

aaaggtaaaa ccggtagcgg aaccgccgtg aacgttggaa agggaggtgt acgcgtggac 300

acaggcaagg gcaagcccgg aggagggaca cacgtgagcg ttggcanccg gaaaanggtc 360

acggaagtgg cgtcgcagtc canacggggt aaacccggta aaagaanc 408

<210> 1289
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-G8

<400> 1289

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngggta aacaacaaga 120

agagtgggac acaagtcacc acagcaacaa tgatcaacat gaccaatctg cgactacttc 180

ttcaaagaaa catgttccac cacttcactc tcttgagttc atggaacttc agaaaagaaa 240

agccaagttg ctctccatgc tcgaagagct taaaagaaga tatggacatt accganagca 300

aatgagaatt gcggcggcag cctttgaagc ggcgggttgg nctaaggang ggcaaagata 360

tacactggcg ttagcgtcaa nggcaatgtc aaagacactt tcggtgttta 410

<210> 1290
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-H10

<400> 1290

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ctaagcaata ccgaattgat gctcagaaga tggaggaatg ggcacgaagt cagacttctg 120

cttcactagt tgacttttcc tctaaagaag gagatattga agcagttctt aaggacattg 180

caggaagagc tggtagtaag gaggggttta gttacagcag gttcttcgct gttgggctct 240

ttcgtttgct tgagcttgca agtgctactg attcaactgt cctggacaaa ccttgtgcat 300

ccctaaatat caacaaagaa aaaccttgat cgggaactgg atgtgttanc gtaacctgnc 360

ttcaaaacct gtcaaaccaa aggaattgcc taaaggagta ttccaaaagg aana 414

<210> 1291
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-H2

<400> 1291

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gatcctaagc aataccgaat tgatgctcag aagatggagg aatgggcacg aagtcagact 120

tctgcttcac tagttgactt ttcctctaaa gaaggagata ttgaagcagt tcttaaggac 180

attgcaggaa gagctggtag taaggagggg tttagttaca gcaggttctt cgctgttggg 240

ctctttcgtt tgcttgagct tgcaagtgct actgatccaa ctgtcttgga caagctttgt 300

gcatccctaa atatcaacaa gaaaancctg gatnnggaac tggatgtgta acntnacctg 360

cnttcaaanc ctgtccaagc caangaattg ccctaaagga gtatgtcc 408

<210> 1292
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-09-Q1-B1-H4

<400> 1292

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ttattaagct cgaaacaatt gttcttcact ctggccgctt ctgcaaagtc gtgtgcttct 180

cgcacctctg cgcaggtgtg gggtggcctt gaagtggtga cttcactctg tcttccaagg 240

atttctctag cttctatcat ttggaggctc cgtcgtgttt ccgagggtct taccttgat 300

acngctaaaa anttactacg cccaactaat aacaacctcc ttaagccttt aaaannaact 360

tttaatccgn gcaaaaaatt aaacttgggt ncttaaaatg gttccaantt t 411

<210> 1293
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-10-Q1-B1-A1

<400> 1293

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tggatcaaaa cgtaccaata agcaagaagc tatggaacat cgtacgtttt ctcttgtaca 120

tgatccgcaa aggcgtctca aaaaacaaac tcatcgctga cttcaacgcc actctcaaac 180

gtggcaagaa cctcatgttc caccaacgtc gtcgtgtcca cgccggttcc accgcctcag 240

ccgctctaaa cgctacttca gccaccgcgt catcgcgaca agagtacgag tttagctgca 300

gcaacactcc aaactattca ttccctttct ctaatatggc tttcatgagg aaaaagagtc 360

acaataatct cttcacgtgt ggtcaaaacg cctcagacgc ttgacgacga cgtt 414

<210> 1294
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-A10

<400> 1294

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aatggtcggt atggatttgt tcaaatgtgt aatgatgata atggtgttgg ttgtctcttg 120

tggtgaagct gtttctggag ctaagttcga tgagctttat cggtcaagct gggctatgga 180

tcattgtgtc aacgaaggcg aagtcacaaa actcaagctt gacaattact ctggagctgg 240

gtttgaatca agaagcaaat acttgtttgg taaagtctct atccagatta agcttgttga 300

gggtgattca gcaggaacag tcactgcttt ctacatgtct tcanatggtc cgaaccacaa 360

cgaattccat tttgattcct aaggaa 386

<210> 1295
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-A2

<400> 1295

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tccagatcct ttagcagggg aacagacatg gccaacagag gaagaaatgg ctgaggctga 120

caaaaatcag aagcagggca ggctaaagaa gaagactttg ccgcgaggga cttcagaata 180

tcaggctgct tggattgtgg atgagnacag atgaatagga ttccgataat ggtgattctg 240

atgataatgg tatggtattg gatataggag aggattccaa tcaagaagga atgtatgacc 300

aaagaatttg aggatgacgg aaaatcattg aacctgcggg ataatgatac tgaaactcaa 360

gaatgaatcc caaatggtgg acgatgaana cttgacagaa gaacaaanta aaggatgaaa 420

t 421

<210> 1296
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-A3

<400> 1296

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tggcgattag ggtttttctt acccttctcc tcttcttatc atctgcaatt ctatctttct 120

ctctttatga agatcaagcc ggcctcactg attggcacca aaggtacatt gggaaagtga 180

agcatgcagt attccacact caaaagactg gaagaaagcg tgttatcgtc tcaaccgagg 240

agaatgttgt tgcttcactt gatctcagac atggggagat attttggcga catgttctcg 300

ggacaaagga cgctatcgat ggggttggta ttgccttggg gaaaatatgt tatcactctt 360

tcatcaagaa ggaagtactt taaagagcct ggaaacttcc tgatngtcaa atggt 415

<210> 1297
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-A8

<400> 1297

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agacaagcat catgatgagc aagagaaagg atttcatggt tttccaggag gtggacatta 120

cccacctgct caaggaggtt accctcctca aggttaccca ccacaacaag ggtatcctcc 180

agctggaggc tacccacctg ccggatatcc tcctggtgct taccctgctg cgcccggtgg 240

ttatcctcct gcacctggag gttaccctcc tgctggctat cctgcacctg gagctcacca 300

ttcangacat tctggtgggt ggactcggag gcatgatagc aagtgcagct ggtgcaaccg 360

caagcagctt atgggagctc aacatgttgg tcacgcctct cacaaaccct tacgggcatg 420

<210> 1298
<211> 413

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-B1

<400> 1298

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agagctttgg tcacactgat cgagaagggc gttgccttcg agaccatccc cgtcgatctc 120

atgaaaggag aacacaatgc agcctgctta tctcgctcta cagccttttg gtantgttcc 180

tgctgttgtt gacngtgacg acaaaatctt cgagtcccgt gcngtgatga ggtacctacc 240

tgacaagtac aggtcacang gacctgatct tntggggaaa accgttgana acagangtca 300

agttgaacaa aggcntgatg tggaagcgac caactaccac ncaacgctaa ttgnacttaa 360

cgcntcacat aatgttcgca tcagtcatgg gaatcccatc tgatgagaag ctg 413

<210> 1299
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-B5

<400> 1299

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gggaggtggt aaagacaagc atcatgatga gcaagagaaa ggatttcatg gttttccagg 120

aggtggacat tacccacctg ctcaaggagg ttaccctcct caaggttacc caccacaaca 180

agggtatcct ccagctggag gctacccacc tgccggatat cctcctggtg cttaccctgc 240

tgcgcccggt ggttatcctc ctgcacctgg aggttaccct cctgctggct atcctgcacc 300

tggagctcac cattcaggac attctggtgg tggactcgga ngcatgataa caagttcagc 360

tggtgcancc gcagcanctt atggagctca catgttggtc acgcctctca caa 413

<210> 1300
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABLI-10-Q1-B1-B7

<400> 1300

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gcaacgatcc caagttgaag tgctttgaga attgttttag tgatatgatg aagactggag 120

ctgacccttа tggttggcag tttgggtgga agaaaatgga taagaaagct aagaaaatgg 180

aacgtttcat atcatctaat gctagtctct accaggagac tgagattctt gctgatcttg 240

aacagacttt caagagaatg aagagcaatg aatctgctac tgacaatctt ttggagtatc 300

agaaaaaagt tacatggaaa agacacgaag tgaagaatct gcgggatgtg tctctttggg 360

aaccgtactt atgactatac cgtcattctc ttggttagat nagttttcac aat 413

<210> 1301
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-10-Q1-B1-C1

<400> 1301

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tccgtttctg gaaaattcaa tctcactcac gcgcgtcttc acgatctaat cgaacgcgcc 180

gcttcacgcc ttgtctccga cgctggaatc aaacccggcg atgtcgttgc tctcaccttc 240

cctaacaccg tcgagtttgt tataatgttt ttagcggtga taagagctag agccacggcg 300

gcgccgttga acgcagcgta cacggcggag gaatttgagt tttacctctc cgattcagat 360

tcaaaagcta ttgttaacct ctaaagaagg gaaacgcacc ggctcaaaga aacaa 415

<210> 1302
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-10-Q1-B1-C11

<400> 1302

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gatgtttaca atacaagaag caagggaaca ctggacttat cgctgatcaa gtaggaatcg 180

atgcagagaa cgggtttcgt tcgcctctta tagatggtga caacatggtt tcgttcgaga 240

agagaaaaac ttctggttcg gaagcactaa agtcatatgt tcatctcttc cagattatat 300

atcacatggg tgctggagca gcctgtgctt acaagacagt atatattgga ccgtgatttt 360

cccgtttctg tctttacaag actatgagat ga 392

<210> 1303
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-C2

<400> 1303

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ccaccaccgt cgtcgtctct ctgtatctct ccggcgggtt ctctctctac ttcccccggn 120

ggattaaaag atggaccant cttttatttt gatattccgt tagcttgttc agttattgta 180

gaagctgtac cgtcaagact tttaatatct caaatggatg atggtgggca tcgtgagaat 240

ggtcggcata aagcagcagt tcagggccag tggttgatgc agcatcagcc gtcgatgaaa 300

caagtgatgt cgataatagc agagcgcgat gcancgattc agggagagaa atctggngat 360

atcagagaaa aaagcaacag tagntgaaaa ggacatggcg tttcttca 408

<210> 1304
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-10-Q1-B1-C5

<400> 1304

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gatgctgtgt tgatgcggtc gtcggagcct ggaaaaccgt cgtacgtagc gagggtagag 120

gcgatcgaga cggacgcgcg tggatcgcac gcgaaagttc gtgtgaggtg gtattatcgc 180

cctgaggaat ctatcggagg gaggagacaa ttccatggag ccaaggaggt ttttctctct 240

gaccacttcg attttcaaag cgccgatacg attgaaggaa agtgtaaggt tcacagtttc 300

agtagctaca ccaaacttga ctctgttgga aacgacgact tcttctgtcg tttcgaagta 360

caattccact accggcgcgt ttgattctga cagagtcacc gtgttcctgc aaagt 415

<210> 1305
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-C6

<400> 1305

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnncaggagg tcaaaaaatt ctttaaagag ccgtttagac caaacccatt 180

tttataatca tcaatggacg atgatggatt tcgcaattgg ggatactatg aaccagcggc 240

tgcttcttcg tttaaaggta atctcggttt gcagcttatg tctactattg accggaacac 300

taaaaccgtt ttaaccgggt cgtgaatccg aatccntaan gattgggttc aaagggntcg 360

tancaatccc naagagcaag acatgaacta tagcctggga ttaatcaaac caaaanggac 420

aaa 423

<210> 1306
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-C9

<400> 1306

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cttttcgttt tgaaattaag gaagtgattg ttatcaccgg aggagagaga gaaaatgttg 120

ggaattttca gtggagctat agtatcgccg ccggaagagt tagtggctgc cggaagcaga 180

antccgtcgc cgaaaacaac cggatcanct ttagtaaacc ggttcgtcca ngaaaaatcc 240

atccgctgtt tctgtacaag tcggcgacta tgttcagctt gcttacagcc atcacaacta 300

gagtcctctc cggcctaaga tnatttggag ctaatganta aatattnctg cttgttcnaa 360

ggctcacttg acaannntatg aaaccttgaa acaaca 396

<210> 1307
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-D1

<400> 1307

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ccttanacca ttcgatctgg attctctaag gaattcattt cacaagataa ctcccnttca 300

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gaccggttct canaacggtt atcggtcact cnttcgatgt gtatca 406

<210> 1308
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-D10

<400> 1308

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caacaaggga cttgagatca acaactggat acccatctcg gagaagcagt accagtgttt 120

gaaaacctgt ttcatttatc acttagcact gaagtagatt tctgttggaa tgttctacca 180

attctgcttg agaaatctcc aaatctaaag actctcacca ttcaggcttt gcattatact 240

actaatcact atggggatga gaacactgtt tgcgattgtt tggaggtgta ttctttctta 300

tcgtcctgcc atattgaggt tctaaagata acccagttca agggagatat cggagagatg 360

gtgcaaataa aagcatatct tgggngaaat t 391

<210> 1309
<211> 387
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-D11

<400> 1309

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cattacgaaa aaggagctcg gtaccatgat gcgttcaatc ggtgaaaaac cgacaaaagc 180

tgatcttcag gacttgatga acgaagcgga tttagatggt gatggaacca tcgatttccc 240

tgagttcttg tgcgtaatgg ctaanaanca angtcatgat caagcgccgc gtcanactaa 300

aanancaatg gngganaagc tcactganga tcagnttaca gagtncaggg aatctttcan 360

gttattcgac aagaatggtg atgnttc 387

<210> 1310
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-D12

<400> 1310

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ggctcaggcc actatggtcg ctcctttcaa cggacttaag tcctccgctg ccttcccanc 180

canccgcaan gctaacaacg acattacttc catcacaaag caacgggggg nagagttaac 240

tgcatgcang tgtggcctcc gattggnaaa gaagaagttt gagantctct cttaccttcc 300

tgaccttanc gattcctaat tggctaanga acttgactan cttatccgca acaagtggat 360

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cccgggtact atgatggacg ggtactggnc aatgt 455

<210> 1311
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-D2

<400> 1311

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ggcttccaca gcagtacatg gtcggccctt gtctagcatc atcggctctt tcagcggtga 180

tggctagctc acggtgttaa tccggcgtag ttcggttttc ttttcctttt ggtttatatc 240

acggttacgt ttcgaccgtt gattgtcttt agatcagaat tcattgggta tgtgtgttgg 300

tgatggcgtt ggttttcaat ccaaagcttg cttaattaag atctaattcc aacctatcct 360

ttgagtttaa aggtttacgg ataataatta ngcagtttgc gtttttgaga tgaagatt 418

<210> 1312
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-D3

<400> 1312

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gaggaaacat tgcaaaagga agctttctaa gacangagac aacgagaata ttccacaagg 120

cacgcaactc aatcttgcat caacgctcta cgtgtccaga tttgtgtcca aagctttgca 180

aaatcgacga aaagatacag cagattgttc cagctctcct gatatgtcac ctccggtacc 240

tcataaacca gccgatctcg agtttgcaaa ggctgaagca tagtgtgtct ttgaaggaaa 300

atgactctct acacanacaa ngtagtgaag actccatggt aagctcaaaa catgccctac 360

aacgtaactt tccaagttan tgtcaaataa ttgactcatc accacgtcct agatat 416

<210> 1313
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-D6

<400> 1313

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cggcgattgc gaatgtcttc tccttctgat tctcgtctct ctgtgtctcc gggataagta 120

atcgaagatg aatatgattc agcgattcat gcaatctatg gcaaagacgc gtggcctctg 180

tcatccagat tgcgtaaaag caagtagtga gcaagaagat tacgatgcgt ctcagctcag 240

tatttggtgg ataatgctgg gaaggaagac gaccagngag aaatggatga agcaagctct 300

cagttcacta tcganaactt gcatcagtat atggtggaaa atgtctggaa taagangtaa 360

gatgtgcang gagaaggaac aaccactcac tgtcaaagac tgccttgaat gtg 413

<210> 1314
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-D9

<400> 1314

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ttcgttggag gaaactggaa gtgtaacggg actaaggacn ccatcgccaa gcttatcncc 120

gatctcaaca gtgcaacctt ggaagcagat gtagatgttg ttgtgtcacc tccatttgtc 180

tacatcgacc aggtcaaatc ctcgttgaca gaccgtattg acatatcagg tcagaactct 240

tgggttggga aangtggagc cttcacnggt gaaatcagcg tggaacagct caaagacctt 300

ggctgcaagt gggtcattct tgggcattcc gaacggagac atgtcatcgg aagaanaaga 360

tgagtttatc ggggaataaa actgccatat gc 392

<210> 1315
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-10-Q1-B1-E5

<400> 1315

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ttccgatgac atcatgagat ttctcgatgg aatggctagc tccgacgacg ttcttttcgg 120

ttttcttgac gaaggaaacc agtcaccgga agatttctcc gtaaacctca acgccggcga 180

agatgacggt gacgaagacg acaataataa caattctgaa gataacaaag ctttttggca 240

ggaacacgaa caacttcttc aggggacact gtataggaca agttccattg agacaaagat 300

tagacaagct acaaaagaag cgttgaaaca agttaaatct aagggtcttt attgtgtttg 360

ccggcgacca gtggacggcg gttgccggag ttgcttacgt ggcgaaatct ct 412

<210> 1316
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-F4

<400> 1316

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gtcaagtggc cgtctatttc cctctcttag cttaactcat ctcaagggca agctatctct 120

ctccatcaac tcgttttcct ccaagattca gtctcatgct ctccgaggag ttggtatagg 180

cgagtcagat aagaaaaatc ccctgccgcg aggggccgga gaaggagtca aggaagatgc 240

gaggagtaag ctgcttcatg tagttttggt ctctcctcag attcctggga atacaggttg 300

cattgcaaga acatgtgctg cctcaactgt ttggtccgca tttantcggg ccattaaggt 360

tttcaagttg gatgacgcca ggagttaaac cnagctggtt tggattaatt ggccctttgt 420

t 421

<210> 1317
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-F6

<400> 1317

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ttgcttctgc attacttcta acagctctat ttatcggcgt taatgcatcc aggtccaatg 180

aaacatggca tgaacatgca gttgagaacc cagatgaagt cgctgccatg gtggacatga 240

gcattcgaaa cagcacagag cggagaagat taggttactt ctcctgcgcc accggcaacc 300

caatcgacga tttgctggcg tttgcgaccg caaatggcag ctccgtcgca aacgtttagc 360

cgattgctca atcggatttg ggcgcaacgc aatcggangc cgcgacggtc gtttcta 417

<210> 1318
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-10-Q1-B1-F8

<400> 1318

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tcttcttctt ccatctttcg ttgcattcac gtttttaaag gttctctgaa tcactccatt 120

aaaaatagct ttgaacaagt tttctcaata gtcaacaaaa acaatggccg ttgaagctca 180

ccatctaaat cctctgttct cttccaacag agaaatgatt catcccgttg aagcaagcgg 240

tgtagtctat aacacccaga tgagatacgg caccgttccg acgtttaacc ccaccgtgga 300

atgtcaaact tctctgttta acccaatcta caacatctca acaagtcgat cgtttggttc 360

atcaatccat gaaaccaacg atacaagtcc gttgatagtt ctctcacatt caacaagcga 420

<210> 1319
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-10-Q1-B1-G1

<400> 1319

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cgaatgaatc aggcgttcaa gggctgggag gaagtgttaa cggatgcatg ttgggctctc 120

tcttaccttt ccgatggcac aaatgacaaa atccaatctg tcattgaggc aggtgttgtt 180

cctcgactcg tcgagcttct ccagcatcaa tcaccatctg tgcttattcc tgcccttcgt 240

agtattggta acattgtcac tggagatgat ctgcagacac agtgtgtaat tagtcatggt 300

gcacttctta nccttttgag ccttctgact cacaatcata aagaagagca tcaaaaagga 360

agcttgctgg acaatctcaa atatcactgc tggaaacagg gancagattc ag 412

<210> 1320
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-E7

<400> 1320

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gcaacccggt acaccgaacc agcgaaccag agttcccgtg agtcaattcg cgccgccgaa 120

ttatcagcaa gctaatgtta acctatctgt tgggaggcca tggagcactg gtttgtttga 180

ttgtcaagca gaccaagcca atgccgtttt gaccacaatt gtaccttgtg taacatttgg 240

acaaatagca gaagtgatgg atgaaggaga gatgacttgt cctcttggaa ctttcatgta 300

cttattgatg atgccggctt tatgctctca ctgggtgatg ggatnaaagt atagagaaaa 360

aatgaggaga aaatttaatc cttgtggaag ctccatattc agattgtgcc agtcatgt 418

<210> 1321
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-F3

<400> 1321

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cagaagaatc ctcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnacaacac tagaggaatg ggtnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nngtttcttc ttctcgtcct caacgtcgat ttctcctcaa ccggcgacat 420

<210> 1322
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-F4

<400> 1322

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agtcctgcgt tctctcaagc ctctgcatcg tctatctttc tctttctctg cctcagcaat 120

ggagagtgat gcatcttgta gcttagtttt gtgtgggaaa tcctctgtgg aaactgaggt 180

agcaaagggt ttgaagaaca agaactctct taaactccca gataatacca cagttncact 240

cattttanaa tcctgagggc taagaaattg ggttaaanat gatgataaat ccctcaatct 300

ttcantcctn aagaaaccna atangaactc ancggtttgg gacgggtncc cattttggtc 360

ntccnncgnt tggcctccaa ccaangaggt tt 392

<210> 1323
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-G1

<400> 1323

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gtgtcaagct ggtccatcgt ttgtaccctg aggtggaccc gtccttaaac ccggaccacg 120

tccctcacat gctacacaag tgtcctgact cgatccctga cccaaaggcg gtccagtacg 180

tgcgtaacga ccgtggcacc cccatggtgc tagacaacaa ttactaccgt aacatcctag 240

acaacaaggg tttgctcctt gtggaccatc agctcgcaca cgacaaacga accagaccaa 300

tcgttaagaa gatggctaag gaccaaggcc tacttcttca agggagttca ctaagggcaa 360

tccagatntt atccgangaa caaacccttt gactggctct aagggtgaag atnaaggaag 420

caatgtt 427

<210> 1324
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-G3

<400> 1324

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cggttctggt ttcggtgtcg ttctcgcaac acataacgct gattcgggga gacttgcgtc 120

gaggaaagcg agtgacctcg ggatcgngaa ncagaacggg aagatagagt ttgcacagnt 180

atatggtatg tcagatgcat tgtccttcgg gttaaagaga gcagggttca atgttagcaa 240

gtacatgccg tttggacccg tcgcaaccgc tataccgtat cttctccgac gcgcttatga 300

gaaccgggga atgatggcca ccgggagctc atgaccgtca actcatgang gatggaactt 360

aagaggagat taatcgccgg gattgcgtaa agagaagagt atggagccat taaatgaaaa 420

ttgggaaatg tagatgaata aatttcctcc tatgtagttt aagaaaattg a 471

<210> 1325
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-12-Q1-B1-G6

<400> 1325

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atggctgtcg gagcatctca accttcagtg gttgcaacta aagacggccg cattggcatg 120

aaaaaccaga tgcaggtgaa tgtgacggca gatcatcgtg tcatctatgg tgctgatctt 180

gcacagttct tgcaaacatt ggcaagcatt attgaggacc caaaggacct tacattctag 240

gccaaattac tgcttttcgc atcccaagtc ttctctgctt ttgattccat gggaagcttg 300

tatttctgcg gtaatcagtt tccttgatag aacaaacctt ttaaagatta aacataatca 360

tttctttgtt tgagatatat cctccgcaac attttctgca tggaaaaggc cgtccca 417

<210> 1326
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-G9

<400> 1326

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gaaaatggtg gaagctgtgg ctgacaagtt tattgttgtg gctgatgata ccaaactcgt 180

tacaggactc ggtggaagtg gattagctat gccggtggaa gttgttcaat tctgctggaa 240

ctttaatttg attagattgc aagacctctt caaggaattt ggatgtgaat caaagcttag 300

agttgatggt gatggcaagc cttatgtgac tgataacagt aattacatta ttgatttgta 360

ttttaagact cctttgaang atggattcnc tgcgggtaaa gaaa 404

<210> 1327
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-H1

<400> 1327

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tactcggctt gacttgcctc tactacggct cttcgttcgc tcccggatcc agaaagtccg 120

atgagttcga tggatctaat aaccgcgttc gcaccggaat cggatccttg aggaatcgan 180

atattgtgct tgcantgagc cgtttcgaag ttcctaaaag tgttccgata tgtgattcga 240

gacactcgga gttgataccg tgtttggatc ggaaccttca ttaccaagtt gaaattggaa 300

actcaattta tccgttaatg gagcactatg agcatcattg tcctccatca gaacggcgtt 360

tcaattgcct tgttccgcct cctggttggt tataanatcc gttaaggtgg cctggtga 418

<210> 1328
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-H12

<400> 1328

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taccggaatc gtcaccgttg ctgcttctcc ggttctccgc caatttcaag ttccaaaatt 120

gggtaatgga ggaggattag ggatggtgat agagtgttcg tcgaggccac agaanaaatc 180

gacggctcat cacaggaaga cgaggccgaa naagactcan ccttgggaca ttaagagaaa 240

gcctactgtt tacgctcctc ttcctcctct tccggcggaa tggantcccg tttcactctc 300

gcttctgacg acggtggtgc tgccactgct gcgggaagat ttggttccaa ggcgctgccn 360

atttggtang anttacctgc cgaatttggn ttgtantcta agtttgagaa acttttggtt 420

ggttg 425

<210> 1329
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-12-Q1-B1-H5

<400> 1329

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tctaaaggcg gatggccaat tcactgttgt tgcaaacatg agaggaaata gtgctcagga 120

agtggctgag cgtgtgctga gccaaccatc attgtcagga ttgcagggac cgacaataag 180

cccagtgtac tgtacacaaa atggaaaagt atcggttgac tactatgcca tcgtgatttg 240

tgtaccaaaa aaggccctat acgactctgt gaagcaactt agagcggccg gaggcagtgg 300

ggtattagtt tcacctttga cctacatttt tgatgaggat actccaagat ggggtcagct 360

cctganaaac ctccgggatt taaatgcttt ggtaaggaag atgcatatgc tgaacaa 417

<210> 1330
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABLI-13-Q1-B1-A1

<400> 1330

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ctctccttcc ttcttccatc tccgtcttcg taatccctcc accacttctt cgtctcgtcc 120

caaactcgac ggtggtttcg ctttgtcaat tcgagcttac atagagaaac caaactcttt 180

ctccaccttc gctaacaaag tcatcggttc tcttcccgtt atcggactcc tcgctcgaat 240

tatcagcgat gaaggcggcg ttggtagaga tctcgtcgat ttcgctgagt ttaggaaacg 300

agttgggaat aaatgtactc ctgatgantc taaggcttct aagagtttca acaacgacga 360

agnaangnaa gtgaaccctt ggangtgcnt cngtgttgtt gggttgctgc aataggtgca 420

ngt 423

<210> 1331
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-A10

<400> 1331

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tcactgaatt ctcaggattg cgaagctcct ctgcttctct tcccttcggc aagaaacttt 120

cttccgatga gttcgtttcc atcgtctcct tccagacttc tgcaatggga agcagtggtg 180

gatacaggaa aggtgtgact gaggccaagc ttaaggtggc cattaatgga ttcggtagga 240

tcgggaggaa cttcctgaga tgttggcatg gtcgcaagga ctctcctctt gatatcattg 300

ccattaaaga cactgggtgg cgtcaaacaa ggcttcccaa ttacttaaat acnaactcca 360

atccccgggn aacctttgaa tgcctgaatg tccaaaacct ttctgggaga anaactg 417

<210> 1332
<211> 493
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-A3

<400> 1332

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attcggctcg agcgaatttc tcgtagattc aaattggggc tnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nntctgtttc tgaatcaaca gctttgcttt gtctcaaaga 180

gctttatctt cttctctatc gttccaagat ccttgttgat tactgcgctc aatctagtaa 240

gttatggctc ttgttacaaa acccttcgat ttctgggtat ttccatgatt tgaatcaaga 300

aatttcgact cttttggatg ttttacctgt caatgatctt ggtctaagcg atgacattag 360

agagcaaatc gagttgttgc agaagacagt caaggaaagc gaagattgta tatcgataag 420

aacgatgagt cattacgtga atcaatccaa tccgtttcct gatgggtttg agaacggtaa 480

gattccgaag ttc 493

<210> 1333
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-A5

<400> 1333

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actttgaccg gaaagaccat cacccttgaa gtggaaagct ccgacaccat tgacaacgtc 120

aaggccaaga tccaggacaa ggaaggtatt cctccggacc agcagcgtct catcttcgct 180

ggaaagcagc ttgaggatgg acgtactttg gccgactaca acatccagaa ggagtctact 240

cttcacttgg tcctgcgtct tcgtggtggt ttctaaatct cgtctctgtt atgcttaaga 300

aagttcaatg tttccgtttc atgtaaaact ttggtggttt gtgttttggg ggccttgtat 360

aaaccctgat gaataaantg tccaacaagt tccgttcctg gtaacccctt ccttccaaat 420

gacaagtcca acttcttcct taaaaaaaaa aan 453

<210> 1334
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABLI-13-Q1-B1-B12

<400> 1334

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cgagcacaaa agaaaaaaac acaagtttcc tgattcctct cttctctgcg attttagctc 120

tagggatcga tttcggcgtc aaacgtcgtc gttttcgacc atctcctact tactactact 180

cagctgcttc tgccttctan ggttctttct ccgttcaccc tccgccgcac gagttgtcca 240

gctccgccgc attcttctgt ctccagatca ccggctttaa gcaaatccgg ctgcttttca 300

ctctaattcg taaaccactt gtgggggantt gagcatcttt tacattctcc aaaatctctg 360

ctttcnaggg ttttggtgag ttttggtggg atgaatantg tgttcagtga ttagattcng 420

aatggataaa gctcgctaag ctcaatagca gtcaanaagt c 461

<210> 1335
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-B3

<400> 1335

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ctttcttctg ggctttttcc ttttctcctt catctttcat ttgccgattc cttatctcct 120

ctttcagctc cagttcaaaa ttttattcac ctaaaccatt cttgtccaag tagtatatta 180

acgtattcaa gaaacagcac ttacttcacc aatctcaaaa cacttttgtc ctctctctct 240

tcccggaacg cttcatactc taccggattc caaactgcca cggcgggaca agctcccgac 300

cgtgtcaccg gacttttcct ttgtcgcgga gacgtctcac aagaagtttg ccgtaactgc 360

gtcgcctttt ccgtcaaagg agactttata atggngtccg tataacaaaa gaagtccgtg 420

ctttaatacg atgaagtgta tgcttanata ctcccaccga aatantctct cgaac 475

<210> 1336
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: ARABLI-13-Q1-B1-B4

<400> 1336

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aactccaaaa cctctctctc tttcttcctc acacgctttt ttcatttctc aactgtaaaa 120

aatctgatcc aatggagaaa gacgatgcaa cggcgtcgtt ttcacctagc ttcagtactt 180

attccggcga tagactcgtc gaaatcgccg aacgagtctg ttacaaagag aaatcagacg 240

ccgaattcga gttttcgacg gcggcgactt cttcttccgg tgacggtgga ctagttttcc 300

ctgtatttaa caagaatcta atctccggag atgtttctcc ggagaaagta attccgttga 360

aggatctatt cctccgtgaa cgtaacgatc aacaaccacc gcaacaaaca tactcatccg 420

tcttccgacg aagaagaaga agacgacgag tttgattcga ttccgagcga aatctattgg 480

<210> 1337
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-B5

<400> 1337

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gcaagcattg agatcagtgg agcancatct gaatctggaa aagttgtatg tactaggcac 180

cagttgtgtg gacaacggna cacgatatgg actagacang tttctgaaag cagctagtaa 240

agagccanag actgttctcc attatgaatt tatgcaagat tacaaggtcc aactcaaaca 300

cntggatgga cacattgaaa gaggttccct atntctctct aactgcaaac gaattagtan 360

atgtcatanc tccatcgtgt tacaagctgc nttgattaca caaatgcatt aacggatttg 420

<210> 1338
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-13-Q1-B1-B7

<400> 1338

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cgtcggacaa gaattcctct ccgtcttatc cgatcgagac ttcccttata gctccatcaa 120

gatgcttgca tcgaaacgct ccgcagggaa gcgtgttgcc ttcgatggcc atgaatacac 180

ggtggaggag ctcacggcgg atagcttcaa cggtgtagac atagctttgt tcagtgctgg 240

tggatccata agcaaagagt ttggtcctct ggcggcggag aaaggaacca ttgttgttga 300

taatagctcg gcttttaaaa tggttgatgg agttccgctt gtgattcctg aagtgaatcc 360

agaagcaatg aaagggatca aagttggaat gggcaaaggg gctttgattg caaaccctaa 420

<210> 1339
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-C10

<400> 1339

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnntct gnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnaacca aattcgtctc cacgattgtt tcttctgagt 240

tttgattttt cagatctcgc ttcttttccc gatttgttca aatcatcatg ggcttaacct 300

ggatggtata aatggggatt aaatttcatt ccacaaaagc tccgaagttt taattnatta 360

atnggctaac tggttaaccn ggtggtataa aaanaaanct tgtggtgtgg tgggttcccc 420

naagttttca agg 433

<210> 1340
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-C11

<400> 1340

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catacaagat cgccgctcat gcagctgatc tagccaaaca gcatccacat gctcaggcat 120

gggacnatgc gctgagcaaa gcgcggtttg agtttagatg gatggaccaa tttgctctgt 180

cgttggaccc catgactgct atgtctttcc atgatgaaac tcttccagct gatggagcca 240

aggttgcaca cttttgctcc atgtgtggac caaaattctg ctctatgaag ataacagaag 300

acatccgaaa gtatgcanag gagaatggtt atggcagtgc tgaagaagca atcagacaag 360

gaatgggatg ctatgagtga agaattcaaa catcgcaang aaaaccatta a 411

<210> 1341
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-C12

<400> 1341

aaattttang ccgccagaag agnaataacg tcgcatncac ncgtacgtaa gntcngaatt 60

cggctcgagg ggtcttcctc gtttgctccg cttaagcacc atgaaggtca ccgtcgtctc 120

ccgcagcggc agagaagtcc tcaaagctcc ccttgacctc cccgattcgg ngactgttgc 180

tgatctgcaa gaagcgtttc ataagagagc taagaagttt tacccgtcga ggcaaagact 240

gactcttccc gtgactcctg gatngaagga caaacctgtt gtcctcaata acaagaaatc 300

actgaaggaa tactgtgatg gaaacaacaa ctccttaact gtaatcttca aaagacctgg 360

gggcacaagt ttcctaacgc aaaactcctc ctcctccaat aaccttggcc tctcctaanc 420

aaccntgtct ttaacaactt cccggttaaa aanttccttg gggtaat 467

<210> 1342
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-C3

<400> 1342

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ctctcatttt cttcttctcc aagccccccc cctttctata tatatctgaa attggtcttt 120

tataaaacaa acttccattt ttcgtatggc tgcttctttt cttacaatgg acaatagcag 180

aaccagacaa aacatgaatg gttctgctaa ttggtcacaa caatccggaa gaacatctac 240

ttcctctttg gaagatcttg agataccaaa gttcagatct tttgctcctt cttcaatctc 300

tatctctcct tctcttgtct ctccttccac ttgtttcagt ccctctcttt ttctcgattc 360

ccctgctttt gtctcctcct ctgctaacgt tctagcttct ccaaccacag gagctttaat 420

cacaaaacgt aactaaccag aaaggtataa atgaaggaga caaggagcaa caacaa 476

<210> 1343
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-C7

<400> 1343

gagaagaaaa acagagcatc ataagaagaa aaaaaaaagc aatgggatcc ttagttcatg 60

tgaaagaagc cacagttatt actccttccg accaaacacc ttcttctgtt ctgtctctct 120

ccgctttaga ttctcagctt ttcctccgat tcaccattga atacctcctc gtttacccac 180

ccgtttccga cccggagtat tctctctccg gtcgtctcaa atccgctctc tctcgcgctc 240

tcgttcctta cttccctttc tccggccgcg tccgagaaaa acccgacggc ngcggaggtc 300

tccgangtca aattgccgtg ggcaaaggtg ctcctggttc ctgaaacccg tttcctgaaa 360

tcctcacgtn gccnttgact ttcaagaaaa cctccccggg aacgttaact aactgggaga 420

aaagcntcct ttc 433

<210> 1344
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-C8

<400> 1344

ctcgagcgaa aacaatggaa aaagcaacgg agagacaaag gatactgctt cgtcatcttc 60

aaccttcgtc atcttccgac gcctctctct ctgcctcagc ttgcntgtcc aaacacantg 120

gtgnatatca anatgganat gangttgtca ttgtcgnggc acaaaggact gcactttgca 180

angcaanacg tgncagcttc aangatacat ttcnagacga gttcttgcct ctgtattgag 240

agcattgata ganaaaacta atgtaaaccc aagtgaagtt ggtgacattg taatgggtac 300

tgttttggga ccaaggatct cagagagcca tgtgaatgca ngatggctgc gttctangct 360

ggtttccccg aaactgttcc catcangaat cgtgaacana cagtgttcat ctgggcttca 420

ngctgt 426

<210> 1345
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-13-Q1-B1-D11

<400> 1345

ctcgagaatt ccgcaccacc acatccacgt gtctcaacct ccactctcct acgtctctcc 60

accgtcgccg gcgtctgcag cgtctgcttc atcaattcct cgccgtctct ctgaaagaaa 120

aaaaggaacc acctttctct ctctgttttg ctcgatctgt tgtaatttac tctgtagcga 180

tcatcagatc gccggcgttt taaaccgcca tgaaactctc cgacgttgga ttagacgttg 240

tcaaaactcc gagattggtt aaattgattg cgtttgcgtt tctctcaatc tcaacaattt 300

ttctcttcaa tcacttctca gattccttct cttaaccaat ctcttccttt tcccatctcc 360

tctttcttca aacgtcaacc gaaagctaat caaaaccaac ataacatccg gtcg 414

<210> 1346
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-D3

<400> 1346

ncagaagaga cacaaagtcg cntcnacncg tacgtaaant cngaattcgg ctcgagtctt 60

ctccttcacc tttgagtttc tcgaggctct tttcttaatt ttactgctaa atagtagtgt 120

ttactgtctt cagccgccgt cgccggattc cattatcgaa ggcgacggaa gcagtatctt 180

aggttttgtc cgacgaagct ccgtttgatt gttatcggtt ccgttgtatt cgtcgatctt 240

ccattttcgc atttgttttc tatatccgaa gatgggaagc agtccagctc cgtttgccga 300

tattggcaag aaagccaaag atctcctaaa caaggattac atttttgacc acaagtttac 360

tctcacaatg ctgagtgcta cangaacgga atttgtggct actgggtttg aagaaggatg 420

atttcctttt tgggcgatat aagcacacta tataaaggtc aaaacaccat tgttg 475

<210> 1347
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-D4

<400> 1347

gnacgcccag aagagacata angtcgcatn cacncgtacg taaactcnga attcggctcg 60

agcgaggtct ctctatctct ctctttcgta cacttcgcgc ttctcttcct gtcagaggcg 120

tttctcatgg ctcctcttac tctctccgtt gatgtgaaga gctcttcagc gacctctcat 180

gatgtttcga agagggtaat gcagagttca cagctcaaaa taaacaaagg ctttttgca 240

tctgttaata cacaagaaga taaacccttt gatttcttcc gcactctctt tgaggggttt 300

atagcaggag gtacagctgg agttgtagtt gaaacagctt tatacccaat tgatactatt 360

aagactagac ttcaggcagc tcgtggaggt gggnaaaatt gttttgaang gtctttattc 420

aggattagct ggaaatatcg ctggtgtcnt accggcttcg gctttatttg ttggagttta 480

cna 483

<210> 1348
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-D6

<400> 1348

attttccagg ccgntctata gaaaaganat gacgtcncan ncacgcgtac gtaaactcgg 60

aattcggctc gagccgcact gcaagcactt tggcaattgc caaggttaaa gaactcgctg 120

ttagcattga ggggaagagt gtagaggaaa agaaaggttt attggctaaa tgtgctgcta 180

cgactctctc atctaagctt atcggtggag aaaaggagtt ttttgctaca atggttgttg 240

atgctgttat ggccattggg aatgacgaca ggctaaatct gattgggatc aagaaggttc 300

ctggtggcaa tatgcgagac tctttcctcg ttgatggtgt agctttcaaa aaaacattct 360

cgtatgctgg ttttgagcaa cagccaaaga aatttcttaa ccccaaaatt ctcttgctta 420

acatcgaatt ggagttgaaa tctgagaagg aaaacgctga aattaggctg tcagattcat 480

cacagtacca g 491

<210> 1349
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-13-Q1-B1-D8

<400> 1349

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caaaaggaaa aactaaaaag ccgatcttgg ctttttttgtt tctgagtgca tctcgatact 120

tggaagcatt ctttggtgag gctgattcat tctcatctgt gaaagtcttt ggcttttgaa 180

gcaatactat ggaaggaatt cagcatccta tacctcgcac tgtcgaagag gtttttagcg 240

actttcgtgg tcgtagagct ggtctcatca aggctctctc tactgatgta cagaagtttt 300

accatcagtg tgaccctgag aaggaaaact tgtgtcttta tggacttcca aatgaagaca 360

tgggaggtta atcttcccgt tgaggaggtc cctcctgagc ttcctgaacc agcgttaggc 420

atca 424

<210> 1350
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-E1

<400> 1350

ctcgagccag ctcagatgag tctggagttt ccaagtttaa aacctctcta cctcgatttg 60

agcaaatcct gatttactct catcctcatc atctctcatc atcgagattc atagtctctt 120

ttgccgcttg gattcttcca aggttagtga gctgctatgg caactcatca gcaaacgcaa 180

cctccttccg attttcccgc tcttgccgat gaaaattccc agattccaga ggctactaag 240

cctgctaatg aggttcagca agctaccata gctcaggatc ctccaacatc tgtgtttaag 300

aattctgaac caatacggga ggatnaaatt cagaacgcta tcaaattcct ttcgcaaccg 360

agggttanag gntctcctgt tatacataga agatcttttc ntgagangaa aggtctcact 420

aaaaa 425

<210> 1351
<211> 360
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-E5

<400> 1351

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gatgcaccat ctgaagcagt gtgtgtgccg tgtggacatg tcgccggatg catttcttgc 120

ttgaaagaga ttgaaaacaa gaaaatggga tgtcctgttt gtcgcgccaa cattgatcag 180

gtcattaagc tatatcatgt ttgaagcata tctcctctat ggctggaaga tattgaaact 240

atctcctatt ttttactttg tctttaaaag ataactacaa atttttttat tgtgtgtatg 300

ttatgtggtg aagtcaaaga agtcgaaata tagaatcacg acaaanaaaa aaaaaaaggg 360

<210> 1352
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-13-Q1-B1-E8

<400> 1352

tcgagcacac tttctctctc tctctctaga aaaagaaaga aagaagaaaa acttattgtt 60

attcccattt cgcccctatc cgaaaaatgg ttgaagctca atcatggaca acgcggcgga 120

tgagcaatcc tagattcgac gccgccgcaa ccgccgcacc aaccatcgta gacatccccg 180

gaacaccacc acactcctcc gcttcttcac cactcaaacc cttcttcctc tcttccccca 240

ccgtatcacc aacaatcctc acggcggcta taatcgccgc ctggtttggc tcaaatatag 300

gagtcctcct cttaaacaaa taccttctct tctactacgg tttccgttac ccaatcttcc 360

tcaccatgac acacatgtta tcatgcgccg cctatagctc cgccgtaatc aatatcgccg 420

gaatc 425

<210> 1353
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-F1

<400> 1353

ctcgaggcac agttgagcag gacggaaaga ccatcaaact ccagatctgg gacacagcag 60

gccaagaacg tttcaggaca atcactagca gctactacag aggagctcat gggatcattg 120

tcacttatga tgtcacagac ctagagagct tcaacaacgt caaacaatgg ctgaatgaaa 180

ttgaccgtta cgctagcgaa aatgtgaaca agctactggt tgggaacaag aacgatctca 240

cttcacagaa agttgtatcc actgagacag ctaaggcttt tgcagatgaa cttgggattc 300

cattcctgga aacaagtgct aaaaatgcaa ccaatgtgga agaagctttc atggctatga 360

ctgctgcaat taagacaaga atggctaacc aaccagctgg aggtgccaag ccancaacgg 420

tcc 423

<210> 1354
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-F4

<400> 1354

naagagacac aaagtcgcat cnacncgtac gtaaactcng aattcggctc gagaaacaat 60

gacggacact tgtcagcggc tgaactaaag gcgcttatca ttgggatcag ctttgaggat 120

atagattttg acaaggatga tgctgtggga aaagttctcc aagattttga taagactctt 180

gatgagcaag ttgatcaaga agagtttgtc cgtggaatta agcaatggct tatccaggca 240

atgggaggtg ctccatctgg tcctgaagct ggccctcgaa caatgaaatt ccttgacaat 300

ttccatgtgc aaacaaagag agagcatgct ttgttgggag ataacgagaa tggtgagaat 360

gatgaggaag gcggtgaggt tgcagaccca aaatggatca ccattaaagc agctctgctg 420

ctactgttag gagctgccan tgcanctgca tttgctgatc ctttantccg acac 474

<210> 1355
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-13-Q1-B1-F8

<400> 1355

ctcgagaaca acttcaacct tgcatcgtct tgttcaagaa actccttgta cttgacatga 60

cgaactgtgg atcccttgaa tgcttcccca agggtatcgg aagtctcgtg aagctcgaag 120

ttctgttggg atttaagcca gccaggtcca acaatgggtg caagctcagt gaagtgaaaa 180

atctcacaaa ccttcggaaa cttggtcttt ctctgactcg tggcgatcag atagaagagg 240

aggagcttga ttctttgata aacctaagca agctgatgtc catttcgatc aactgctatg 300

atagctacgg cgatgatctc ataaccaaaa tagacgccct tactcctcca caccaagctc 360

catgagcttt ctctacaatt ctatcctgga aagtcgagtc catcgtggtt gagtcctcac 420

aagc 424

<210> 1356
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-G1

<400> 1356

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aaagacccaa actttgagaa acaccttcat tctcttcctt ccttcatcaa agcttaacct 120

tttttaattt ttatcctcgn tttttcaatt cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn ttacgaatct tttgttccag atcgtgagag aggaggagtt 240

ggaagaatga agatgactat tgggtctttg ttccaancct aattttgcag attaatttcg 300

ttttttgttga tttctgtttt ggggtttgcn ttgctgattc cngtggatta aanggttcct 360

tttggacaac acaaatttgt tgggtttttt tttgggggaa aagagaatta aaantttctc 420

cnttagaatc ggcgtttggg ttgaaaaaa 449

<210> 1357
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-G10

<400> 1357

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aaaacaatgg cggataagct cactgacgat cagattacag aatacaggga atctttcagg 120

ttattcgaca agaatggtga tggttccatt acgaaaaagg agctcggtac catgatgcgt 180

tcaatcggtg aaaaaccgac aaaagctgat cttcaggact tgatgaacga agcggattta 240

gatggtgatg gaaccatcga tttccctgag ttcttgtgcg taatggctaa gaatcaaggt 300

catgatcaag cgccgcgtca cactaaaaaa acaatggcgg ataagctcac tgacgatnag 360

atttacagag tacaagggga atccttcaag gttattcgac aagaatggtg aatnggttca 420

attacgaaaa aaagggagct ccgt 444

<210> 1358
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-G11

<400> 1358

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnc cgtcgtaatc attctgatga ttctgattca gagtcttctg 240

aagatgatag aagacagaag cggaggaaca aagtcgcagc ttcttctgac tcagaagcaa 300

atgtttcagg cgatgatgtt tcacgcgttg gacgtggttc ttccaagcgg tctgagaaga 360

aagagcagga aacctcatca caaggaaana acgaaa 396

<210> 1359
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-G2

<400> 1359

ctcgaggaaa aagatctcaa aatgctcacg acacctccac gaacnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ncaatcgaac 120

tctgtataca actctttcct caagtgtttc tccgacaaga cgaaatctcc acaatcccaa 180

atcactgaca atgtcttctc tcagacaaac cctgctttct cctccgttct tcgtgcttac 240

atccgcaatg cgaggttcaa cacttcctct actcttaaac ccaccatcat aatcactcct 300

cgctccgaga gccacgtcag cgccgccgtc acttgctcaa aaaccctaaa tttcctcctc 360

aaaatccgaa gcggcgggca tgactacgat ggtctctctt acatttccga caaaccantt 420

ttcaatc 427

<210> 1360
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-G6

<400> 1360

ctcgagggct tgtggatgta tcccgatctg gaaccttgac atatgaagct gttttccaaa 60

caactgcagt gggtctaggc caatctactt gtgtaggaat cggtggggat ccttttaacg 120

ggacaaactt tgtcgactgc ttggagaaat tctttgttga tcctcaaaca gaaggtatcg 180

ttctcattgg agaaatcgga ggcactgcag aagaagatgc tgcagcattg ataaaggcaa 240

gtggtactga gaagcctgtt gttgctttta ttgctggact tactgcacca ccgggtcgtc 300

gaatgggtca tgccggagcc attgtttccg gtggtaaagg tacggctcan gacaaaatta 360

agagtttgaa tgatgctggg agtgaaggtt gttgaatctc cggctaaaga ttggattaac 420

gatg 424

<210> 1361
<211> 63
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-G8

<400> 1361

ctcgnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nttcnaaatn 60

ncg 63

<210> 1362
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-G9

<400> 1362

ctcgagctgg aactaaagga tatatatggc tggtcttatg aagttaggat gcttggtctt 60

tgtcttcgtg attgcggccg gtccaatcac agcaaaggcg gctctgagct gtggcgaagt 120

taacagcaat ttgaaaccgt gcactggcta cttgaccaat ggtggtatca ctagcccagg 180

cccacagtgc tgcaatggtg ttagaaagct taacggcatg gtccttacaa ccctagaccg 240

tcggcaagca tgtcgttgca ttaaaaatgc cgctagaaac gtcggccctg gtctcaacgc 300

tgaccgtgct gctgggattc ctatgagatg cggaatcaaa ataccttaca gtanccaaat 360

cangttcaac aacangtgca acaacg 386

<210> 1363
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-H11

<400> 1363

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attcggctcg agcttgttaa cattctcact tcacagaaag ttgtatccac tgagacagct 120

aaggctttcg ctgatgaact tgggatccca ttcttggaaa caagtgctaa gaatgctacc 180

aatgtcgaag aagctttcat ggccatgact gctgcaatca agaccagaat ggcgagccaa 240

cctgcaggag gatctaagcc accaacggtc cagatccgag gacaacctgt taaccagcaa 300

tcaggctgct gctcctctta attcgctttg gtaacactta accatattat gtcattcgtt 360

tgcatgtaag aaatctaaac aacgttgctt cttaaatctt ttggaattgg nttttcaatt 420

tttcacttgt gtccaaaaag cctttaaatt ccttggtaan g 461

<210> 1364
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-H2

<400> 1364

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agcaacatag ctacaaggtg aagtttatgt gcagctatgg cggcaagatt cagccacggc 120

ctcacgataa tcagctcact tacgtaaacg gagaaacgaa gattctttcc gttgatcgcg 180

ggattagatt ccctgtttta gcttccaaac tctccaccgt atgcggcggc ggtgatggcg 240

gcggaggaga agttacgttt aagtatcagc ttccgggaga agacttagac gctttgatct 300

cggttacgaa cgatgatgat ctggagcata tgatgcacga gtacgatcgc ttgcttcgtt 360

tgtcgtctaa gccagcgagg atgcgtttgt ttctcttccc ggcttcttct gggatttggt 420

tctcaaaagt tcgactcaat cggatcgaga tcgcctcgtc naaggcgt 468

<210> 1365
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-13-Q1-B1-H4

<400> 1365

cgtaanctcn agaattcggg ctcgagcaaa aaacagagca ttttttttgg gtcaagagca 60

agaaaaaaca gagcatactt ttgcaaaaag cagagcttgg agcgctttct tgtcatctaa 120

aattcaaagg cagagacgat gggagatgta gttttgttca tagatgaaac atatttgaaa 180

tcgagtttta atcgctgtag aatctgtcac gaagaagaag ctgagagcta ctttgaagct 240

ccttgttctt gttcaggaac catcaagttc gctcacagag attgcataca acgatggtgt 300

gatgagaaag gaaacacaat ttgtgaaatt tgtctccagt tttcggttat tttgttgata 360

aagcatgcat ttgatgcggt ttatggaact gaagagtatc cctatacaat attcacggtc 420

ttaacattga angctataag gcatact 447

<210> 1366
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-15-Q1-B1-D6

<400> 1366

ctcgagtttt ttttttttt tttttcagga aagggtgaaa aaacagatcc taaattagat 60

gtaaacaaaa actattttgt ctagttgtca ttttttcttg tcttgtccta atttacaact 120

tgtcatttca atacaaaata ttgaaaaagg agaaacaaat tgaagaaaaa aaaccaaaaa 180

aaaagaattt gtcacaagat gttgataatc gcctgcttct tggaacaccc taacgaaaac 240

aaatcatctt cccgagatct cttcttgcca acacactcta ctgcgacgtc gtttggtttc 300

tcgttactca cattgaaaat gttgactccg aatagcctaa ccacagtctg aaccggacta 360

gaccggactt tccaagtgga tatacaattg ccggtctggg tccggttgat ttcccgaaac 420

a 421

<210> 1367
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-D7

<400> 1367

ctcgagccaa aacaaacgaa acttctctgc aatagccttc tccaaatttc ctcactttca 60

cgcgtttcag tcttctctat ataaacttgt ttcatcancc catcaaaatc ccactcaaat 120

tctgtttcag tgttcttcaa attctcaatc tttctctcaa ttcatctaaa gggttcctca 180

aagtttcaat ctttctctct gaatctaaac catggctcgt tgtagcaaca atctcgtagg 240

gatactcaat ttcctagtat ttcttctctc gatcccaatc ttagctggtg gaatctggct 300

aagccaaaaa gggtcaacag agtgtgaaag attcctaaga caaaacagtg attgctcctg 360

ggtgttttcc ttaatggttg tagcaatanc tgggtctaat aagttcatgt tgtanaagtc 420

acatg 425

<210> 1368
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-D9

<400> 1368

ctcgaggaga gaacacagag aggcgagagc gacgtagggt tggtgtttcg tacggatttt 60

ctcggtcaat cttagtttct ccggcgagag attgcttttc aggaatcatc atggtgagaa 120

agagaagaac ggatgctcca tctgaaggag gtgaaggctc tgggtctcgt gaagctggtc 180

cagtctcang tggtggacgt ggttcacagc gaggtggttt ccagcaaggg angangacaa 240

caccaaggtg gaaaggggtt atactcctca acctcaacaa gggangtcct ggtggtccnt 300

ggatatgggc aaccaacaca acaacaacaa cagtatggaa ggaccacaat ntttaccang 360

ggaaaangat aanggaggac ctcctcaaca aanggangtc caagaanggn atgggcagtg 420

gcccttgnag gttgaccttc cttctggacc accgcanaa 459

<210> 1369
<211> 132
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-E1

<400> 1369

tcgagactag ttctagatcg cgagcggccg ccctttgtat ttttttcatt aatcaaataa 60

ctcgtttttc tctcnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn ng 132

<210> 1370
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-E11

<400> 1370

tcgagctaaa atcaaaatct ctctgatttg ttgttttgtt gatgttttat gaagtgattt 60

gcattagatt ggattgaaat ggctacggag cctacaagga gctggttcca gatacggcag 120

cagaaaccgg ataaatcaag ccctactaaa aagggacaag agggaaatgt gaagaatctt 180

gggagacctc ctatgaatga tgcaccatct aatgctacta aacagaaagt tgctgcagcg 240

aagcaatata tcgagaatca ttataaaatt cagaagaaga gtctccagga aagaaaagag 300

cgtcggagca tccttggnac aaaaacctaa cctgatgctg atgttaacgg tttgaagaca 360

agantggtta tattaaagaa cctttgagaa aaaagggaat tggantanat gctccnacaa 420

aggacaanaa attgggggtt gatnccttg aacggcttac cancattg 468

<210> 1371
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-E12

<400> 1371

tcgaggtgac acaagcagca gtatcatcgt cgtcatcact cactagcaaa gctcgagctt 60

cttccttctt cttcaatggt cgctctcttc cttctctgaa cccgatctct ccgtttctgt 120

tcctccccac aagtagatcc ttcgctctcg tcgtcaagag cactctcggt acaaccacct 180

tgcatgcaga aggaatggag acaaatcttt acttaggatg actttaagtg gggatagctc 240

ggaaactgta gagatgactt caactgatat gattttcgag ccgattttgg agcatggagt 300

tttccggttt gattgntccg ttgaccatag gaangntgct tttcctantg tttcatttaa 360

gaacagcaaa gaccgggaag ttcctantgt gagtcacatt gttccagcat atattcctaa 420

ttgtggttgt cctcaggacc aacaagttgt cacctttgag 460

<210> 1372
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-15-Q1-B1-E5

<400> 1372

ctcgaggtct ggttttgttg cgttcttccg atttgggttg gagaggaaat ggcgtcggga 60

tggggaataa cgggaaacaa agggagatgc tacgatttct ggatggattt cagtgaatgt 120

atgtctcact gcagagagcc caaagattgt acccttcttc gtgaagatta cctcgagtgt 180

ctccaccatt ccaaagagtt tcaaagaagg aacaggatat acaaggagga gcagcgtaaa 240

ctaagagcag cttcgaggaa aggtgaagaa gccggagatg ggactcacaa ccatcactaa 300

gtctcaacaa tcctccttca agcttcatcc gattccagag aagaataata aaaggttcat 360

gggaagattt tgtatcttgg gaatctctaa acgctttgat tgtttttcaa ttttcaattt 420

aacc 424

<210> 1373
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-E7

<400> 1373

ctcgagntcg gntcanntct tcgatctggg ctttcgtgtc tttttgcgtt ttgattggta 60

ataaaaagaa gctttttaaa aacttttttcc atggctggaa gtgaagaagt taatcttatt 120

gagagcaaga cagtggttcc tctcaataca tgggttctaa tatccaactt taagctagct 180

tacaatctcc tgcgtcgccc tgacggaact tttaaccgtc atctcgcaga gtttctagac 240

cggaaagtcc ctgcaaatgc caaccctgtt aatggggtct tctcttttga tgtgatcatc 300

gatcgccaaa ctaatttgct tagcaagagt ttacaagacc agctgatgct gggcacttca 360

ccaaagtatt actggatcta cagaatcctg gttgatgggt gaaaatagtg ccctgttaat 420

tgtcntcct 429

<210> 1374
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-E8

<400> 1374

ctcgagattg gcttaatctt ttgagtagta tcagtaggag tgaagtgaat gagtcatcag 60

ttcaagatgt ggaggagggt gaagggtttt tgtctaggag tttggagggg aagaaggcga 120

cggatttgag gttggcggcg attgcggttg ggacgtcgag tcgtggtggg ttggggaagc 180

ttcagattcg tgggagtggg tttgagagta aggtgactga tgttggtctt ggtgctgttg 240

ctcatggttg tccatctctt aggattgttt ctttatggaa cttgcctgct gttagtgatt 300

tgggtttgtc tgagatcgca cggtcatgcc cgatgattga aaaacttgac ctttcacggt 360

gtcctggaat aactgacagt ggattggttg ctantgctga gaactgtgtg aatcct 416

<210> 1375
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-F11

<400> 1375

ctcgagtgct atcctatcat cttgcctagc angcaaagat ttcactccgc gaaaaagatg 60

attcattcgg atcaacatga aagcccaact acattgccag aatttanata ttggaaagag 120

gtttacctcc gtgcttctat ggtacaatcc tcttcccgcg gagcctcctt tcttctcggt 180

ccgcagagac aaaatgtagg actggtgcca acagttaatc acggnagaaa ggactcantg 240

cgccaanatc actaactnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnctgtcttt tctgntatac ttaagtnnac tttccccggt tccgttgnta ctgngggctt 360

taacgcaatt gatcgggtta nccaaatatc ccttcaaaca caacataggt ngtcnanang 420

atttnggnta accgncaaaa gcacgaaaag cc 452

<210> 1376
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-F6

<400> 1376

ctcgaggtta aatgttcagc acgatgcgtt ctacgcgcag cacaatttga gcatgagcag 60

ttttctggtt gcagcttcaa aaactgttct cattgacttc atctcttccc ctgaagtgaa 120

cttctttaag aaaattgctg gtcggttcgg gcgtaatgga ccaagtcttg tgttccggtt 180

tcttggtcaa gacgagttcg agccaacgac aaacagaact tacggctcta tcttgagtaa 240

cttgactttt gtcaagacgt ttgcttcagg gattcttgtc cccaagtctt acatattgcc 300

acttgatgac cagcagtact tgcttcctca tacatccttg gttcaagatg ctcacaaagc 360

angattanaa gtttttgtgt caggttttgc aaaatgatat tgatattgca cacgacta 418

<210> 1377
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> [illegible]

<400> 1377

ctcgagaatc acagaattgg tgtggcaaaa gataagtgat cctgaaagca tag 60

acttaaacag gtctacacag accattctat caatgtggat aaagtattc cacgtattgt 120

ggaggtcaca cagcatccgg ctgctgcagc atcgtttgct tcaatcatgc ttgctcctgg 180

tggagagcta tctttctccg aagctttatc taggtgtaag gaaaacaatg ttcagatatg 240

tctcatgtat ggaagagaag atccatgggt gagaccgtta tggggaaaga agataaagaa 300

ggaaatcccc aacgctccat actacgagat cagcccagcg ggtcactgcc cacacgatga 360

agtccctgag gtggtgaact atctgatgcg cgggtggatn aagcacctgg agtctggt 418

<210> 1378
<211> 133
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-G11

<400> 1378

ctcgagcgct gcctgaagag gtacgcttcg tgtattatta gtcttagcga tatgcattga 60

ttccatttaa atattcgacc tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnn 133

<210> 1379
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-G2

<400> 1379

tcgagctctt tatcagaaac tcgatttctc catcgacgac atcgtcaaga acttaacttc 60

agctaacgtg atcggaactg gaagctccgg tgtagtttac agagtcacaa tcccgtccgg 120

tgaaacttta gctgtgaaga aaatgtggtc aaaggaagaa aacagagcgt ttaactcaga 180

gatcaacact cttggatcga ttcgacatag gaacataatc cgtcttttgg gttggtgttc 240

gaatcggaat ctgaagcttt tgttctatga ttatcttcct aacggaagtt taagctctct 300

gcttcacggt gccggtaaag gaagtggagg agctgattgg gaagcacgtt acgacgtcgt 360

tttaagcgtt gcacatgcac taacctancc tcatcatgaa tggtcctcct cccgantcct 420

a 421

<210> 1380
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-15-Q1-B1-G3

<400> 1380

cgagggagca cagccaggtc ctgtcttgtc gtggtatcaa cgagtcaaaa ttgcagttgg 60

agctgcaaga ggccttgagt acttgcatga aaaagctaat cctcacatca ttcaccgtga 120

cattaaatcc agcaatgtcc tcctctttga agatgatgtt gccaaaattg ctgactttga 180

tctctctaat caagctcctg atatggcagc tcgccttcat tccacccgag ttcttgggac 240

ttttggttac catgcccctg aatatgcaat gaccgggcag ttaaatgcca agagtgatgt 300

ctacagcttt ggagttgtct tactcgaact tcttacaggt cgaaagcctg ttgatcatag 360

actacccaga ggccagcaaa gtttagtcac atggggctac acctaaactg agtgaaagac 420

a 421

<210> 1381
<211> 325
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-G7

<400> 1381

ctcgaggact tggttaaaaa tcttgagttg gacttgtttc attgtgtccc tcgttgctgc 60

agccggatca gtgcaaggac tcatacaaag tctcaaggat ttcaagcctt tccaggctcc 120

ttagtgaaaa tatgtgttct cgccaacgtc tccaagaaca caagttccat gcactctctt 180

ccctccaata aaagtttcta tttctttgta gtttattggt gtgagacaat ctcataccaa 240

aatattgtac ctctacttgc ttgtcttaaa caaatctatc atcaagttta tcccaaaaaa 300

aaanannnnn naaaaaaaaa agggg 325

<210> 1382
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-G9

<400> 1382

gagaaaacag cttcttcttc aaagcgagac ctatctgagt cgactcgtaa cgagttgatt 60

ttttttttgtt ttcttctcta ctggtttcgc ttttcgagct tctcgtctcc gttaatcgtt 120

aaatctagct cattgatccg atatccattg ttttctctcg ccggcgcgtc attgtcattc 180

gtcgtcgagt tctgattgtt ttaactatgg aagctcgtcg tggagtctaa ttcattattg 240

agcttgagga ttggttcggt tgatggtctt ttccaccgtt tgaaagagtt cntcagttta 300

acatccnggt gttggatcna gtcacctgta ttgaaagtgg gaaaaaacta acttngtgaa 360

ncaangtcnc aaagggntgt gaatttttgg ccncaaaatc aagtnaantt agcntgncan 420

ttctaataag acccnaatgg gaattgg 447

<210> 1383
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-15-Q1-B1-H10

<400> 1383

ctcgaggtta gtgtttggca acccacagag aacactctga tgatacgatg gactgttcat 60

ggaattcctc gtggtccgtg ggagactcgt ggtcgattcg atggtacttc tgagtataaa 120

ttcgataaga atggcaagat ttatgagcat aaagtcgata acatagccat taattcgcct 180

ccaaagtttc aaatgctcac tgttcaagag cttgttgaag ccattagctg cccttcgact 240

cccaagccga cctactttga gttcggagat tgattcatca tcatcgtctg aaacatcatg 300

ctggtgttat gtatactagt agtcttttgt gtggttataa atagagtggt actgtaatat 360

agatgaagaa ggaacgattt aaaataaacc caatagcatg aatacattac acgcttttt 420

tgcgtataat aatcaataaa acgcctatat gtacatataa 460

<210> 1384
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-H6

<400> 1384

ctcgagggcg tttggagacc gaagaagtct ctctcgttat catgtcgtcc ttcagcctcg 60

gtttcagctg cttcttccgc cgtcgacgtc aatgaggntg tgacttcaga gaaaccaacc 120

aaaacgcttc cgtttcgaat cggtcatggt ttcgatctac atcgtttaga gccagggtat 180

cctctgatca tcggtgggat tgttattcct catgatagag gctgcgaagc tcactccgat 240

ggcgatgtgt tacttcattg tgtagtggat gcaattttgg gagcactagg gcttccagat 300

atagtcagat ttccctgact ctgatnctaa aatgggaaag ggagctgctc ntctgtattc 360

atcaangaaa gctgtgngac tcatggacna angcanggta tgacataggg aaaacctaga 420

c 421

<210> 1385
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-15-Q1-B1-H7

<400> 1385

tcgagtctga tttataaaat tgaccaaaac aagtcacaga ggagaccccg gaaaccaaac 60

agtcgacgat tacgaagatg aggatcactg tcatganngc cggtgaacaa atcatcactc 120

tcgatgtcga ttctcaggag actgttgaga atgttaangc cttgctcgag gttgagtcca 180

atgttccgat tcagcagcag cagctgttgt ataatggaaa cgagatggga aattccgata 240

aattgagtgc cttgggtgtt aaggatgatg atttattgat gatgaatggg tttccaaatg 300

cctcatctgg tantgccact agtgccggcg gggaatgatt ttgggcatga atcccganng 360

ggtccagctt tgnaaccctg cnagnctttc agnnaacaca ttcgttgggg attccn 416

<210> 1386
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-A1

<400> 1386

ctccgagaat acattaacag tcaaatgaga cttggtatgt ttgatggtaa ccttgggccg 60

tacgctaatc ttggggccaa gagatgtttg tactccggcc cataaacatt tagctcttga 120

agcagcccat caagggattg ttcttctcaa aaactctgct cgctctcttc cactctcccc 180

cagacgccac cgcaccgtcg ccgtgattgg tccaaactcc gacgtcactg agactatgat 240

cggcaactat gcanggaaag catgcgccta tacgtcgccg ttgcaaggga nttcaagata 300

cnccaaggac acttcaacaa gctggctgtg cccggcgttg cttgcaaagg gaancaaagg 360

atttggtgca accggaggca ncggcgcctt taagccgacn cnaccggttc ctgttnatgg 420

ggatt 425

<210> 1387
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-16-Q1-B1-A4

<400> 1387

gaggcttgtg agcagacata cgggtttatg ccgtgtacta agaccgctct tggaaacgtg 60

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agtgagcttc ttcttgagat ccttggacct ggaattgtcg gtggtttgtt tcttccgatg 180

cttggtgctc ttcctgacgc tatgcttatc atggtgtctg gactatctgg agatgcagca 240

actgctcaaa gccaagtctc tgtgggaatg ggtttgcttg ctgggttcca ctgttatgct 300

ctcactgtta tctggggaaa cttgtactgt gggttggcaa agttgtgatc ttccgtgatt 360

caattgctgt aaacaaccaa ggacaccaaa aggctttcac ctaaaagatt ctggtgtaac 420

tgtt 424

<210> 1388
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-16-Q1-B1-A8

<400> 1388

ctcgagctcc agaacatttt gcacattccg tttcactccg tgttgttgga tcccccaaag 60

aaaatgagtt gctttgggtg ttgtggggag gatgatgata tgcataaaac tgctgattat 120

ggaggtcgtc ataaccaagc caaacacttt cctccaggaa atgatgcaag gcaccaccaa 180

gcctctgaaa ctgcacagaa gggtcctcca gttgtgaagt tgcagcctat tgaagtacct 240

attatccctt ttagtgaact caaagaagca actgatgatt ttggatcgaa ttctctcatc 300

ggtgaaggct cttatggaag agtatactac ggggtattaa acaatgatct gccttcagcg 360

attaaaaagt tggattctaa caaacagcct gacaatgaat tccttgctca agtttccaag 420

<210> 1389
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-B2

<400> 1389

atgatctagt tgntcagcca agaganagaa atcgcntcca ngcgtacgta anatcggaat 60

tcggnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

ngaagaanaa naagaagaag gagatcaagg aactcgaagt gtgtgtgtgt gtgtttgcct 180

tctcttgtct tttagttttt tctctctttg gctgtgattt cgtcggcgaa gagagacata 240

gatcggatat ggcggctgat aatacgggtt cgaaatcgag ctccgctgcg gattcttacg 300

ttgggagctt gattagtttg acatctaaga gtgagatcag atacgaaggg attctttaca 360

atattaatac aagatgaatc cantatccga cttcaaaacg ttccattaat tggnactgaa 420

ngaaggaaaa aagatggtcc acaaagttcc tccaaagtga caaagtttac gaagtacata 480

atgttccgtg 490

<210> 1390
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-B4

<400> 1390

ctcgagaaaa aagttttctt caaaatttat tcatttgctc attgtgtttt tgcttctttg 60

tacgtttctt tctcgtaccg aatctgctct tccttancac catgaactgt tcttggggag 120

gaagcggatg aattattata agcccaacag tgccatagga acaccatcat caactagtga 180

ccacgctcca ggcagtaatg ggaggaagtt gatgagtata tatagaccca atggagacat 240

atttacagga ccatcaggca gtgggcatgg tgggggtcgc actccaagcc ccctagtata 300

tatatattaa tgtgtaatca aggactcaca agcgaaacct ttaaatcccg attcacgtat 360

aacgttatgc cttggtgtag tatatgttta aattcngttt tcaaaagcca agtttttcaa 420

ttcnc 425

<210> 1391
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-D2

<400> 1391

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ctatttgact atggatgact tagctgatga gtttggaatt ggtactcttc gtttgaccac 120

aaggcagacg tttcagcttc atggtgttct gaagcagaat cttaagactg tgatgagctc 180

gattattaaa aatatgggta gcacgcttgg tgcatgtggt gatctgaaca gaaatgttct 240

tgctcctgct gcaccttatg tgaagaaaga ctatctcttt gcacaagaaa ctgctgacaa 300

cattgcggct cttctttctc ctcaatcagg gttctattat gatatgtggg ttgatgggag 360

agcanttcat gactgctgaa cctccaaaag gtaatgaaag ctcnaaaatg ataactccca 420

tggga 425

<210> 1392
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-E3

<400> 1392

gccaagaana cagtaatcgc ntccangcgt acgtaaantc gnaattcggc tcgagttggn 60

naacaaagag aanccnaana acgagagagt tcttgagagt ttctttggtt ggtactacgc 120

ttcttcatca gttgctgtct tgatcgcttt caccgtcatt gtttacattc aagatcatct 180

aggatggaaa atcgggtttg gaatacccgc gattctcatg ctgctcgcgg gtttcttgtt 240

tgttttcgcg tctcctctct acgttaagcg cgatgtgagc aagagtctgt tcactggttt 300

agctcaagtg gttgctgcag cttacgtgaa gagaaactta actttgccgg atcatcatga 360

ctccagagat tgttattacc gtttgaaaga ttctgaactc aaagctccaa gtgacaaatt 420

gaggttttta aacaaaagct tgtgccataa agtaaccgcg aatgaaagac cntg 474

<210> 1393
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-16-Q1-B1-E5

<400> 1393

ctcgagcatc cttcaagaac acaaagctag acagaaaaaa aaaaatgtgt tcctcaaaat 60

taaaaaatct gacccaagaa aacatttctc agatcaacgg ccgtccggtt cttcaaccga 120

agtcgaacca agttccgaca ttagaccgac gtaactcact aaaaaaatcg cctcctaagc 180

ctttgaatcc aattgcatca aagataccct caccaagacc aatttctcta atctctcctc 240

ctttgtctcc caacacaaaa tccttaagaa aaccggccgg ttcttgcaag gaacttctta 300

ggtctagctc tacaaaatcg aaaccagtga tatcaccaga gaacagtgat ggtggctaca 360

aagaggttat gcctatggtg attgttcaaa agcagcctgg aagtatagca gctgccagaa 420

g 421

<210> 1394
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-E7

<400> 1394

ctcgagttcg ggaaaagtat ttggtgtgat aaattccctc tccagcttct cggtgacaca 60

gatattttgc ttccaaataa aacgagtccg gtcactggcg ctcactgact tcgtcttcct 120

ccatctccga tccattggtt taacaagcgc gtgagggcca gatagaccga gaatcatggg 180

aaacggaaac tcaacggaga cgaaagagtc gcgccgatca aagatgcgta agaagattca 240

aaactttcgc agccgccgcc gtcttagtcg tccaggatcc ggaagcgtct ctggattggc 300

tagtcagaga tctgtgagcg canatgattt cgccggcatt gctcttctca ctcttatcgg 360

cgcggagatg aagttcaagg acaagtggct cgcctgtgtt tccttcgggg aacaaactt 419

<210> 1395
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-F1

<400> 1395

ctcgagnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnat ctgcttgttg 60

taagcatttc actgcctatg atttggaaaa atgggggaat ttcactagat acgacttcaa 120

tgctgtggtc acagaacagg acatggaaga cacatatcag cccccatttg agacttgtat 180

aagagatggt aaagctagct gcttgatgtg ttcatataat gcagttaatg gggtccctgc 240

ttgtgcgcaa ggagacttat tacaaaaagc tccgagttga gtggggattt tgaaagggta 300

cattacatca gactggtgat gctgtggcaa ctaattttgc cgtaccaagg gatataccaa 360

agtcanctga agaanctgtt gctgatgcca taaaagcaag ggtggatata aaattgtgga 420

acatacatg 429

<210> 1396
<211> 78
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-F2

<400> 1396

ggaattcggc tcnaagtgta tgagttggat atgtttaata caaaatttcn ccttgtgaaa 60

aanannannn naaaaagg 78

<210> 1397
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-16-Q1-B1-F6

<400> 1397

ctcgagggtt tggatacatt tgagacagtt ccagaggcgg ctccagcaga gttgaaagag 60

cctccaatcg aagatcagct tgcgtttcat actttatggc cggaatctca taaactctat 120

ggtcatggta atgaactatt ttctctctgc tctgaccaca agggaaacct tgttgcttca 180

tcgtgtaagg ctcaatctgc atccatggca gagatatggc tatgggaggt tgggacatgg 240

aaagctgttg gtcgtttgca atctcacagc ttgacggtga cgcacttgga gttctcttat 300

gatgacactc tgctcttgtc tgtctcaaga gatcgtcact tctccgtttt ctctatccaa 360

aggacagaca atggtgaggt taagtcacaa actcatggca aaggttgaaa gcacacaaga 420

a 421

<210> 1398
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-G4

<400> 1398

tangacagaa acgcaccagc ntacgtaaan tcggaattcg gctcgaggaa aaatgggatt 60

acctcaaaat aagctcagtt ttttctgctt cttcttcctc gtctctgtac taactcttgc 120

cccattggct ttctccgaga tcttcttaga ggagcatttc gaaggtggat ggaaaagtag 180

gtgggtcttg tctgattgga aaagaaacga aggcaaagct ggaaccttta agcacactgc 240

cggtaaatgg cccggcgatc ctgacaataa aggtattcag acttataatg atgccaagca 300

ttatgcgatt tctgcaaaga ttcctgagtt tagcaacaaa aaccggactc ttgttgtcca 360

atactcagtc aagnattgaa caaagacatg aatgtggtgg gtgcttacaa taaanctcct 420

gtctggctaa ggttaancaa gaaacaantt ttggtgggng atactccaaa aca 473

<210> 1399
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-G6

<400> 1399

ctcgaggaca ctggattgga actatattcc gcacgcaata acaagaacca aacacctctc 60

cacttagctt tcgttagcat tttcatggaa gctgccaaat tcatcgttga aaagacgaat 120

tcagtcgacc ttgatgaact caatttcgcc ttatcaagtg gatctacttg tattgttggg 180

attatactgg agagatttcc agagctagct aggaaaaatg cttgggaggt tgaagacggc 240

tcgcgatcaa cgttactgca ttatgcgtgt gacaaaggtg accttgaact gacaagtata 300

ttgttaggac tcaatcaagg gactaagaag aagctcttaa cagcaaaagg ttatcacctc 360

tgcatctaac agtccaaaag aggctcaatt tataatcctg ganggagttt aanggacaag 420

tcccca 426

<210> 1400
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-G7

<400> 1400

ctcgagggtc gatgaagaag cggagttcgc atannnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnc cgtcgtaatc attctgatga ttctgattca gagtcttctg 240

aagatgatag aagacagaag cggaggaaca aagtcgcagc ttcttctgac tcagaagcaa 300

atgtttcagg cgatgatgtt tcacgcgttg ggccttggtc ctccaagcgg tctgagaana 360

aagaacaagg aaacgtcatc acaagaaaag aancgagaat taggaaat 408

<210> 1401
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-H3

<400> 1401

cgagagcaaa accgcgagct ctcatggctt ccggcggcaa agattccgat cgtaccttag 60

ggtacatgac acggaaagat acagaagtca agcttccaag acctactcgt gtcaagaaca 120

aaactccggc gccgattcaa ataactgccg aacagatatt aagagaagct cgagagagac 180

aagaagctga gatccgtcct cccaagcana aaatcactga ttccactgag ctttccgact 240

acagactccg ccgganaaan gaatttgaag accagatccg tcgcgcgaga tgggcacatt 300

cangtttggg tcaaatacgc tcaatgggaa gagtcacaga aagattacgg ctcgtgctcg 360

aantgtttgg gaacgaanca tagnagggag attttagggn nccatancct ttgggntcaa 420

agtacgc 427

<210> 1402
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-H4

<400> 1402

cnctatgcac agagaaacgc gnccacgcct acgtaaaatc ggaaattcgg gcccgagatc 60

agaancctta acaagacaat ttgtngtctg gtctcaacaa aacccttctt ttctccattt 120

ttctttttg ctttgtttct gtgctacgat ttgtcaaaaa aaagaaaccc aaatcaaaag 180

cttcgaaatt tcataagatt tctttgtttt tctgaagatc caaggcacac aaaaaaacag 240

ctttttttgt ttcttcaatc aaggattttc cagggttttg ataaccccat gggttcaggg 300

ttctctctgt ttcaaaagaa tttatcgtct tgttatggag atcgagatct gttgcagcct 360

gggtttagga gatttgcctg aaagttggtg tggctttgat tccccaagaa tttggattcc 420

cgttgagatc tgtagaatcn ccaaagctaa aacacggctt tcaatggcgc ttcctggggc 480

tgan 484

<210> 1403
<211> 266
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-16-Q1-B1-H8

<400> 1403

cgcgtangta aactcggaat tcggctcgag caccttagtg acccacttca caccaccatt 60

atcgatacct tctcttcctc ctgatgtggt ggcttttagc ttctactggt gtcatgtaat 120

gatgtggtgg cttttagctt ctactggtgt catgtaatga tgtaacgtcg ttattttaaa 180

gaaaatttgg caccttttgt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnn 266

<210> 1404
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-A4

<400> 1404

ctcgagctcg attacttggg aaaccctagc ttggttcacg ctcagagcat tttggccatt 60

tgggccacac aagttatttt gatgggagcc gttgaaggct acagagtcgc aggaaatggg 120

ccattgggag aggccgagga cttgctttac cccggtggca gcttcgaccc attgggtttg 180

gctaccgacc cagaggcatt cgctgagttg aaggtgaagg agctcaagaa cggaagattg 240

gctatgttct ctatgtttgg attcttcgtt caagccatcg tcactggtaa gggaccgata 300

gagaaccttg ctgaccattt ggncgattca attaacaaca acgcatgggc cttcgccaac 360

aacttgttcc cgggaaatna nccaaatttt aacccgtant ttgcctcaat cctttggctc 420

ctgaattntt aaaagaaa 438

<210> 1405
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-A8

<400> 1405

ctcgagttca aaagtaaaac aagacaaaca aaaaatacac ttaaccattt atttttctct 60

catgaagaat aatactcaac ctcaatcatc tttcangaaa ctttgccgga aactatcacc 120

aaagagggaa gattcagccg gagagataca acaacataac agtagcaatg gtgaggacaa 180

gaacagagag ttagaggctg ttttttctta catggatgca aacagagacg gtagaatctc 240

accagaagag cttcaaaaga gtttcatgac attgggagaa caattgtctg atgaagaagc 300

cgtagctgct gttagattgt ctgatacgga cgggagatgg gatgttggat tttgaggaat 360

tttcccaatt aatcaaagtn nattaccaan aaagaaaaga a 401

<210> 1406
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-B3

<400> 1406

gagtttggga aaaaaaatat ataccanaat aaaagannnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncgataa atttttgttg aggaagaatt 120

tttgttgtaa agagagttta attaaattat gccttcaata gaagatgagc tgtttccgtc 180

aacgccgggt aaattcaaaa ttgaccggtc aaaccgtcag ctccaccgtt gtttcgcttc 240

tacgagcacc atgtttcttt gggctctctt cctcatcgct ctcaccgctt cttacttgag 300

tttccaaagc ttcgtccgat tcccggtaan cgttaacnaa acgcttcttg gggcgggaac 360

ccaatgggga aaaacaaggt cgtaactccg gctcaaattc aaccgcnncc ggngggaacc 420

cccgttcctt gttaccgggg 440

<210> 1407
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-B6

<400> 1407

gagcaatgat aaaacagaaa gttgattcag ccacagagag aaccaccgat tgaaaccgtt 60

aagagaatcc atctcggttc ctatctttgg tctgttgact tcatttgtgg aggcttaagc 120

tatcggatgg ggatcattaa tcatctttga gtgaggcaga gatttctctc taggagctct 180

ctttcgtttt atttatatgt cgacattata taatgtgttt ttctctggga gagaagcaga 240

tttggagtta gagaagtact attttcattt gttcttttaa taactttgtt gcaatttgtt 300

gaagttttgt ttcccttgag ttctttctgt tgtaacaatt tacaataacc agccattaca 360

ttgcaaaaaa aaaaaaaaaa gggggggcnc cc 392

<210> 1408
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-C4

<400> 1408

cgaggatgca ttgtacaagg tgaaagaccc cgaggttaaa tgtttcattg agaaatgctt 60

ggccaccgta tcgcttagag tctctgctcg tgagttacta gatgaccctt ttctccgtat 120

agacgatggt gagtttgatt taagatcagt tgatatggaa gattcggtcg ggccactcta 180

taggcagccg caccatcttc ctgactacta caattacccg tcgaatagta gctctttgaa 240

tcgtcagtac tcaaatggca actacccgtc gaatagtagc tcattgaatc gtcagtactc 300

aaatgggtaa aatagtcatc acgaagtatc aaaatgggtt gggcgttata atccagctga 360

gacagaagga aaactcaccg gatcnaaccc cttngaatcc ccaaaacnat tgagattc 418

<210> 1409
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-C6

<400> 1409

tcgagccctt gaaaacgtta aatgatcttc tcctccgatc attagtctct ttaatctttc 60

tcagcctctt cttgttcgtg atctctcttc ctccggaaaa agatgtcggc cggtaacgga 120

aatgctacta acggtgacgg agggtttagt ttccctaaag gaccggtgat gccgaagata 180

acgaccggag cagcaaagag aggtagcgga gtctgccacg acgatagtgg tccgacggtg 240

aatgccacaa ccatcgatga gcttcattcg ttacagaaga aacgttctgc tcctaccaca 300

ccgatnaacc aaaacgccgc cgctgctttt gccgccgtct ccgangaaga acgtcaaaan 360

gatcaagctt cnatccaaca ntngaacccn taacaacctt taaagagaaa attaaggncc 420

aaag 424

<210> 1410
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-C7

<400> 1410

tcgagcaggt tatactcaca gcaatggcgc tcatgggcag cattcttcat tcaagcggca 60

tggaggaaac attgcaaaag gaagctttct aagacaagag acaacgagaa tattccacaa 120

ggcacgcaac tcaatcttgc atcaacgctc tacgtgtcca gatttgtgtc caaagctttg 180

caaaatcgac gaaaagatac agcagattgt tccagctctc ctgatatgtc acctccggta 240

cctcataaac cagccgatct cgagtttgca aaggctgaag catagtgtgt ctttgaagga 300

aaatgactct ctacacaaac aaggtagtga agactccatg ttagctcaaa acatgcccta 360

caacgtaact ttcaattant gtcaaataat ttgactcaac aacacgttct aaatattaaa 420

aaaaaccnt 429

<210> 1411
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-D1

<400> 1411

cgagctagcc tcatcagaca tatacttgag tataggcttc ttaaggcgtn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncta agtttgtttt 180

tgttgttggc tctctgttcc agcttgtatt atcaaatttg agatacatat cttcttagat 240

acagaagatt gtgatactat cattgttatg tatttctggg gtttccaagt ttcttatncc 300

ttactantac tggttttgat ttgatcccta aataatttac agaaagntgt aanctgnntc 360

caaagganca annnaaanna aaaaaaggg 389

<210> 1412
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-D3

<400> 1412

gagcgtcgga tgagtcagct cacgggaatc aagagcaaag agattttgat ttgggttacg 60

atctctgaga tctttgttaa tcatcaagat ccgactcaaa tcacttttgc taatcctacg 120

ggactatcac gtactttccc cgtcactgct tttgaagaag acgaatgatt catttgtcaa 180

cgctcaccat catgatactt tgcttagcta aattatcttt tgtttttttcc ttataattcc 240

ttttgtttag ctaagttcta ttttcaacat ttgtatttct gcatcttttc cattagagat 300

tttnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngggn gggcgccgac tantgagccc 360

ctcgacccgg ggaattaant ccgggaccng gtanctggaa ggggttacaa acntttcccc 420

aaa 423

<210> 1413
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABLI-17-Q1-B1-D4

<400> 1413

ctcnantgtc ancttcgtga acaccaggcg taaggttgat tggcncacag acaaaatgag 60

aagccgtgac cacacagtct ctgcaactca cggagacatg gaccagaaca ccagggacat 120

catcatgaga gagttcaggt ctggttcctc ccgtgttctc atcaccactg acctcttagc 180

tcgtggtatt gatgtccaac aagtctccct ggttatcaac ttcgatctcc caactcagcc 240

agagaactac cttcaccgta tcggaagaag tggaaggttc gggagaaagg gtgttgcgat 300

caatttcgtg acccgtgatg atgagangat gctgtttgat aatcanaaat tctacaatgt 360

gggtgtccaa anaactgcct tccnaacgtg gccgattngc cgttnaaggg aaaaaannaa 420

tccggntccg gttccgtttt tggc 444

<210> 1414
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-01-Q1-E1-E12

<400> 1414

agttataaat aaaaatttat tttattttcc tgaatagctt aagagaaatt tgatcttcgt 60

cttcgtcact acgtccccag ctctcgagct ttgggcactc gatttcctct atacatttcc 120

ttaaaaccca aaattcttaa gcctaatcca aaggagaaaa aaacagagca tttttcttct 180

tctccaattt aaacagtttc ctaataatct cactttgtct actcgattct cccaactcca 240

atttgactca tcggaatcat gccattatca atgaatcctc cgacgaatcc gccaccattg 300

ttccgttgca tctccgtcat gtaactcctc acttccgcct taatcatctc ttgcaccacc 360

gccataaact cgcctccgtt accgggaaaa gac 393

<210> 1415
<211> 138
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-031-Q1-B1-G12

<400> 1415

gtcgagcact ggacaaaggg taagcgatct aagagatcta gatccgattt ccaccatcaa 60

aacctcactg aggaagagta tcgaactttt tgcctcatgc ttcccgctcg cgacaaccgt 120

cagcctcctc ctcctccg 138

<210> 1416
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-019-Q1-B1-G1

<400> 1416

actctttcgt cgactaatgt gatttattgt tcaccggagt attaaagaag atgatgatcg 60

gagaaactcg caggacttat cccactgttg aaatacctcc atggccggta cttgaagagc 120

ttacaacgtc ggagtttttt ttctccggtg atgaatagtc cagattgtag catgcttgaa 180

gctttggcgg ggttgcagcg ttatttgccg tctaacgaac cggatccgga gtcatacccg 240

gatctattgg gtccggattc accaatcgat gcttactcat gcgaccattt ccgtatgtac 300

gatttcaaag tcaggaggtg tgctcgtggc cggagtcatg attggacgga gtgtccgtac 360

gctcatcccg gagaaaaagc tcgccggaga gatccgangg aagtacatta ctctggtacg 420

g 421

<210> 1417
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-025-Q1-B1-C6

<400> 1417

aactctttcg tcgactaatg tgatttattg ttcaccggag tattaaagaa gatgatgatc 60

ggagaaactc gcaggactta tcccactgtt gagatacctc gatggccggt acttgaagag 120

cttacaacgt cggagttttt ttctccggtg atgaatagtc cagattgtag catgcttgaa 180

gctttggcgg ggttgcagcg ttatttgccg tctaacgaac cggatccgga gtcatacccg 240

gatctattgg gtccggattc accaatcgat gcttactcat gcgaccattt ccgtatgtac 300

gatttcaaag tcaggaggtg tgctcgtggc cggagtcatg attggacgga gtgtccgtac 360

gctcatcccg gagaaaaagc tcgccggaga gatccgagga agtaccatta c 411

<210> 1418
<211> 120
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-025-Q1-B1-G9

<400> 1418

gaattggctt caccactctc aaaagaaaac gagaaccggt ttggtgtgta gatcatcttg 60

aacctttttg aggttttcac attctgagtt tatattaaga gagggaataa tattttggtt 120

<210> 1419
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABLI-14-Q1-B1-A5

<400> 1419

ctcgagccgc tcgagccgct cgagcggctc gagaagagat tcaagagtcg cttcttactc 60

cgaggttcta cacgacggac ttcgaggaaa tggaacagct tttcaacacg gagatcaaca 120

agaaccttaa cgaagcagag ttcgaggctc tgcttcaaga gttcaagacc gattacaacc 180

agacacattt cgtgaggaac aaggagttta aagaagctgc agacaaattg caaggacctc 240

tccgacagat cttcgttgag ttccttgagc ggtcttgtac tgctgagttc tctggtttcc 300

ttctctacaa tgagcttggt cgaagactca agattacaaa ccctgttgtg gctgagatcc 360

tctcgcttat gtctagagat gaagcaagac atg 393

<210> 1420
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: ARABL1-024-Q1-B1-A8

<400> 1420

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actttgagaa ctggtgtcaa gacgagaacc gtcatggtga tttcttctct gctttgatga 120

aagctcagcc tcagttcctc aatgactggc aagccaagct ctggtctcgc ttcttctgcc 180

tctcggttta tgtgacaatg tacctcaatg actgccaaag aactaatttc tacgagggta 240

tcgggttaaa cacaaaggag ttcgatatgc atgtcatcat cgagacaaac cgaaccacgg 300

caagaatatt ccctgcggtg ctggatgttg agaaccctga gttcaagagg aaactggata 360

gaatggttgt gagctatgaa aaactgctgg ctatangaga aacagatg 408

<210> 1421
<211> 422
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-024-Q1-B1-C9

<400> 1421

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cgaaccacct tgtcttctct tagctcatcg aatctctccg tcgccgtcga ttcttcccgc 120

cggtgaatct ctgccttatt gttttcttca atttgatcgt cctgaattca tcgtcctatt 180

tagggtttcg atcacaatct gaagaggagg tcatggacgt ttctgctaga aagtcacaaa 240

aagctgggcg cgaaaagttg aggagggaaa aactgaatga gcattttgtt gaactgggaa 300

atgtactcga tccagagaga cccaagaatg acaaagccac gattctgact gatactgttc 360

agttgttgaa agagctcaca tctgaagtca acaaactgaa atctgagtta cacgcattga 420

ca 422

<210> 1422
<211> 268
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-032-Q1-E1-C4

<400> 1422

atccaaaagt tcactgctgc aacattgaaa caaatacaca gaaggagaac agattacaat 60

aatgatgtaa gaaagatata taggtcttag gttctcttga cagggtcaaa gttggagacg 120

ccgacgacga caccaatgat gacagtgagg acgaggccac cagaagcaat gctgagcaag 180

aaattcttga gggaatgaga gattccacaa ccaacagctt cagctatctc cggaatcacc 240

atcgaagcag taatagcagc cgcggaag 268

<210> 1423
<211> 361
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-029-Q1-B1-H4

<400> 1423

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taatttctct ccatttctct ttctctcttc cttcaaagtt ttctcttttc ttgatgggtt 120

taagagagta aagatcatca agtactatgc attaaattga gaagttatta aaaatttcga 180

aagtaattaa agattgttga tgatgaagag attaagtagt tcagattcag tgggtggtct 240

catctcttta tgtcctacaa cttccacaga tgagcagagt ccgaagagat acggtgggag 300

agaatttcag tcgatgcctg aaagatacca agaagaagaa gaagctatag tagaagaaag 360

a 361

<210> 1424
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-025-Q1-B1-B5

<400> 1424

cgctcatcaa cctcaacaat ctctctcctc tctctctctg tatatagaag aatctccatt 60

gtctttaatt tctctccatt tctctttctc tcgtccttca gggttttctc ttttcttgat 120

gggtttaaga gagtaaagat catcaagtac tatgcattaa attgagaggt tattatcaat 180

ttcgaaagtg attaacgatt gttgatgatg aagagattaa gtagttcaga ttcagtgggt 240

ggtctcatct cgttatgtcc tacaacttcc atagatgagc agagtccgag gagatacggt 300

gggagagagt tgcagtcgat gcttgaacga tacgaggaag aagaagacgc tatattagaa 360

gatagacgac acgtgggctt gt 382

<210> 1425
<211> 355
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: ARABL1-023-Q1-B1-H6

<400> 1425

gcaaaaacag agtttttttt tcttatcttg agaaagttca acagaagatg atgttcgaga 60

aagacgatct gggtctaagc ttaggcttga attttccaaa gaaacagatc aatctcaaat 120

caaatccatc tgtttctgtt actccttctt cttcttcttt tggattattc agaagatctt 180

catggaacga gagttttact tcttcagttc caaactcaga ttcgtcacaa aaagaaacaa 240

gaactttcat ccgaggaatc gacgtgaaca gaccacggtc tacaagcgga atacgggaac 300

aagaaccctg gataacctca actaacaatt caatcccaaa ctccaaaagg aaaag 355

<210> 1426
<211> 282
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-031-Q1-E1-C7

<400> 1426

ggtcttactc caagaattgg cttgacgcca tcaagggatg ggtcttcttt ttctatgaca 60

cccaaaggga ctcccttcag ggatgaactt cacattaacg aagacatgga catgcacgaa 120

agtgcaaaac ttgagaggca gagacgagag gaagctagaa ggagtttacg ctctggtttg 180

actgggcttc ctcagccaaa gaacgagtac caaatagttg cacaacctcc tcctgaggaa 240

agtgaagagc cagaagagaa aattgaggaa gacatgtcag ac 282

<210> 1427
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-033-Q1-E2-G2

<400> 1427

cccacgcgtc cgggctcatc caacagctct tctacgtgct ctgatgaagg aaatgttgaa 60

atcatggaga gaaggaggat agagatggag aagaagaaga aaagaagagc tgttactgtg 120

gtagcaatgg aagaagataa cttgaaagat gatgatgctc atagacttac tctgaatctt 180

ggtggtaata atattgaggg gaatggtgtg aaaaagacga aacttggagg agggattccg 240

agtcgggcga tttgttgtca ggtagacaac tgtggagctg atttaagcaa agttaaggat 300

tatcatagac gtcataaggt ctgtgagatt cattctaaag ctactactgc acttgttgga 360

ggaattatgc agcggttttg tcagcaatgt 390

<210> 1428
<211> 347
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-033-Q1-E1-G2

<400> 1428

cccacgcgtc cgggctcatc caacagctct tctacgtgct ctgatgaagg aaatgttgaa 60

atcatggaga gaaggaggat agagatggag aagaagaaga aaagaagagc tgttactgtg 120

gtagcaatgg aagaagataa cttgaaagat gatgatgctc atagacttac tctgaatctt 180

ggtggtaata atattgaggg gaatggtgtg aaaaagacga aacttggagg agggattccg 240

agtcgggcga tttgttgtca ggtagacaac tgtggagctg atttaagcaa agttaaggag 300

tttcatagac gtcataacgt ctgtgagatt cagtccaaag ctactac 347

<210> 1429
<211> 342
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-H8

<400> 1429

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gaagagctcc atgctgcgac aaggcaaacg tgaagaaagg accatggtca ccggaagaag 120

atgtgaagct caaggattac atcgacaaat atggcactgg tggcaactgg atcgcactgc 180

ctcagaaaat tgggctgaag agatgtggta agagttgcag actgagatgg cttaattact 240

taagaccaaa catcaaacat ggtggttttt ctgangaaga agatagaatc atcttgagtc 300

tctaaattag cattggaagc cggtggtcca taattgcagc tc 342

<210> 1430
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-087-Q1-E1-D10

<400> 1430

tttaatctca agctcatagg aatttgatct ccacattata tcttgatcat caccacaaga 60

aaaacatttc aacttctttt atcagcaatc acaaatcaaa gagatgggaa gagctccatg 120

ctgtgagaag atggggttga agagaggacc atggacacct gaagaagatg aaatcttggt 180

ctcttttatc ctcaaccatg gacatagtaa ctggcgagcc ctccctaagc aagctggtct 240

tttgagatgt ggaaaaagct gtagacttag gtggatgaac tatttaaagc ctgatattaa 300

acgtggcaat ttcaccaaag aagaggaaga tgctatcatc agcttacacc atatacttgg 360

caatagatgg tcagcgattg cagcagaact gcctggaaga atcgataacg ag 412

<210> 1431
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-087-Q1-E1-E2

<400> 1431

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ctttctccgg acgtctcagc cgctcttgct cccgatgtcg agtatcgcgt ccgagaggtc 120

atgcaggaag ctatcaaatg catgcgtcat gctcgacgca ccactttaat ggctcatgat 180

gtcgattctg ctcttcattt caggaatttg gagcctacct ctggctccaa aagtatgcgg 240

ttcaagagag ctcctgagaa cagagatcta tacttcttcg atgacaaaga tgtcgagctc 300

aagaatgtta tcgaagctcc tctaccaaat gcacctcctg atgcatctgt tttctctcat 360

tggttggcaa ttgatggtat tcaaccttcc attccacaga attctcctct ccaagccata 420

tctg 424

<210> 1432
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-H3

<400> 1432

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cgcacaagga acgttttgag aagctgggtg ttcgtccacc aaagggagtg ctcttgtatg 120

gtcccccagg gactggtaaa actttaatgg ctcgtgcctg cgcagcacag accaatgcca 180

ccttccttaa attggcaggc cctcaattgg tccagatgtt cattggagac ggagcaaagc 240

ttgtccgtga tgcctttcaa cttgccaaag agaaagctcc gtgcattatc ttcatagatg 300

aaatcgatgc cattggtaca aagcgtttcg acagtgaagt cagcggagac agggaagtgc 360

agaggactat gttggagttg ctcaatcaac ttgacggatt cagtagcgat gaacgtat 418

<210> 1433
<211> 369
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-E11

<400> 1433

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cttccatgga gtccagcact ggacaaaggg taagcgatct aagagatcaa gatccgattt 180

ccaccaccaa aacctcactg aggaagagta tctagctttt tgcctcatgc ttctcgctcg 240

cgacaaccgt cagcctcctc ctcctccggc ggtggagaag ttgagctaca agtgtagcgt 300

ctgcgacaag acgttctctt cttagcaagc tctcggtggt cacaaggcaa gccaccgtaa 360

gaacttatc 369

<210> 1434
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-G11

<400> 1434

caaaaatgat gatcggcgaa aataaaaacc ggccacatcc aacgatccat atccctcaat 60

gggatcaaat caacgatcca acggccacaa tctcttcacc attctcttcc gtcaacctta 120

acagcgttaa cgactaccca cactctccgt caccgtatct cgactccttc gcttctctct 180

tccgttacct cccgtcaaac gagttaacaa acgattcaga ctcatcaagt ggcgacgagt 240

catcaccact caccgactca ttctcctccg acgagtttcg catctacgag ttcaaaatcc 300

ggcgatgcgc tcgaggtcga tctcatgatt ggacggagtg tccgttcgca catcccggag 360

aaaaagctcg acgacgtgat ccgagaaagt ttcattactc cggcaccgct tgtcctgagt 420

ttcgtaa 427

<210> 1435
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-A4

<400> 1435

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atctttaact taatggcgct cgacgctctt acatcaccaa gattagcttc tccgattcct 120

cctttgttcg aagattcttc agtcttccat ggagtcgagc actggacaaa gggtaagcga 180

tctaagagat caagatccga tttccaccac caaaacctca ctgatgaaga gtatctagct 240

ttttgcctca tgcttctcgc tcgcgataac cgtcagcctc ctcctcctcc ggcggtggag 300

aagttgagct acaagtgtag cgtctgcgac aagacgttct cttcttacca agctctcggt 360

ggtcacaagg caagccaccg taagaactta tcacagactc tctccgggg 409

<210> 1436
<211> 387
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-051-Q1-E1-D4

<400> 1436

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gggagaaaat gcgaggagga gagatccgag gaagtatcct tacacttgtg tcccctgtcg 120

cgagttccgt aaaggatcat gcccgaaagg agattcttgc gagtatgctc acggggtttt 180

cgagtcgtgg cttcaccccg cgcagtataa aacccggctt tgtaaagatg aaacgggttg 240

tgcaaggaaa gtttgtttct ttgctcataa acgcgaagag atgagacctg ttaatgcttc 300

aactggctct gccgtggctc aatctccgtt tatcagcttg gagatgatgc caaggttgtc 360

tcctcttgct tagtcttcag gagtttc 387

<210> 1437
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-078-Q1-E1-H1

<400> 1437

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ctgaagagtg ttgtgactaa gtatccagct gatgcatcac ttcctgatat taacgaaggt 120

gtttatggaa ctgatgattt taggatgttt agctttaagg ttaagccatg ttctagggct 180

tattcacatg attggactga atgtcctttt gttcatcctg gtgagaatgc aaggaggaga 240

gatcctagga agtatcctta cacttgtgtg ccttgtcccg agtttcgtaa agggtcttgt 300

cctaaaggag attcgtgtga gtacgcgcac ggtgttttcg agtcttggct tcacccggcg 360

cagtatagga cacggctttg caaagatgag actggttgtg ctaggagagt ttgtttcttt 420

gctcatagac gggatga 437

<210> 1438
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-075-Q1-E1-D4

<400> 1438

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attccaggat agtattatgt gcagtggacc aaagagcaat ctctgctctt caagaacctt 120

aacagaaatc gaatcaaggc aaaaggaaga agaaacaatg cttctcctcg aattcgctgc 180

ttgtgatgat cttgactcgt tcaagagaga ggttgaagag aaagggcttg atttggatga 240

gtcagggtta tggtattgca gacgtgtcgg ttctaagaag atgggtcttg aagaaagaac 300

acctttaatg ggtgcagcta tgtatggaag cataaaggtt ttgactttca tcgtttccac 360

tggaaaatct gatgtgaaca gagcttgtgg tgaagagaga gttactccgc ttcactgtgc 420

tg 422

<210> 1439
<211> 339
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-034-Q1-E2-G1

<400> 1439

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ttatggtatt gcagacgtgt cggttctaag aagatgggtc ttgaagaaag aacaccttta 120

atggttgcag ctatgtatgg aagcataaag gttttgactt tcatcgtttc cactggaaaa 180

tctgatgtga acagagcttg tggtgaagag agagttactc cgcttcactg tgctgttgct 240

ggctgttctg tgaatatgat tgaagtcatc aatgtcttgc ttgatgcttc tgctttggtt 300

aactctgttg atgctaatgg gaatcaacct ttggatgtg 339

<210> 1440
<211> 362
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-C3

<400> 1440

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atggaagcag aaaacctggc cagattaaga gactctcaga caccttgct aggaggagaa 120

aatcctgagt tgcacccttc tgacttcact ggggtcactc cgagaaagaa ggagattcaa 180

acgcctaatc caatgttgac cccttcaatg actcctggtg gtgctggtct tactccaaga 240

attggcttga cgccatcaag ggatgggtct tctttttcta tgacacccaa agggactccc 300

ttcagggatg aacttcacat taacgaagac atggacatgc acgaaaagtg caaaacttga 360

ga 362

<210> 1441
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-078-Q1-E1-F9

<400> 1441

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ttcctccttt gttcgaagat tcttcagtct tccatggagt cgagcactgg acaaagggta 180

agcgatctaa gagatcaaga tccgatttcc accaccaaaa cctcactgag gaagagtatc 240

tagctttttg cctcatgctt ctcgctcgcg acaaccgtca gcctcctcct cctccggcgg 300

tggagaagtt gagctacaag tgtagcgtct gcgacaagac gttctcttct taccaagctc 360

tcggtggtca caaggcaagc caccgtaaga acttatcaca gactctctcc ggcggaagag 420

atga 424

<210> 1442
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-G7

<400> 1442

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caaacttgat taatatatat ttctttatca tcatctcttc gaaatgcaag atattcatga 120

tttctccatg aacggagttg gtggtggggg aggaggagga gggaggtttt tcggtggagg 180

aattggcggc ggaggaggtg gtgatcgaag gatgagagct catcagaaca atatacttaa 240

ccatcatcaa tctctcaagt gtcctcgttg taattctctt aacacaaagt tctgttacta 300

caacaattac aatctttctc agcctcgtca cttttgcaag aactgtcgtc gttactggac 360

taaacgtggt gttctccgta acgtttccgt ccgaagtggt tgccggaaag ctaaacg 417

<210> 1443
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-075-Q1-E1-G6

<400> 1443

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ctcaaattct tcatgaatat ctctgcttat cgatcaagtg agagcaaatg caatttttaa 180

gagccagcta ttggatctat aactgaagag gatatatata gagatgatga gttcttcttc 240

tccaacacaa cttgcatctt taagagacat gggaatctat gagccatttc aacaaattgt 300

cggttgggga aatgttttca aatctgatat caatgatcat agtcccaata ctgttacttc 360

ctctattatt caggttgatc ctagaattga tgatcacaac aacaacatca agataaatta 420

tga 423

<210> 1444
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-063-Q1-E1-H9

<400> 1444

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gtttgggatt atttatcttt tcaatatcat ttgatgaaga aggatggtga gatgggaaga 120

agtgatgtca ggaggagtag gagatgaaag agagacaacg ttggagtggt gaagaagatg 180

cattgttacg tgcttacgtt agacagttcg gtccgagaga atggcatctt gtgtctgagc 240

gtatgaacaa acctttgaac cgtgacgcca agtcttgttt agagagatgg aagaattatc 300

ttaagccagg gatcaagaaa gggtctttga cagaggaata gcagaggctt gtgatccgtc 360

ttcaggagaa acacgggaac aagtg 385

<210> 1445
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-088-Q1-E1-F11

<400> 1445

cagagtcttc gtctgcaaga gagaacaata ccactcaatc ataatctata acaatggacg 60

tctatggctt atcttcacca gacttacttc gaatcgacga ccttcttgat ttctccaacg 120

aagacatctt ctccgcttct tcttccggtg gttccaccgc cgctacttcc tcttcttctt 180

tccctcctcc tcaaaaccct agtttccacc accaccatct cccttcctcc gccgatcatc 240

actccttcct ccacgacatt tgcgttccca gtgatgacgc agctcatctt gaatggcttt 300

cgcaattcgt ggacgattct ttcgctgatt ttccggcgaa tccattagga ggaactatga 360

cttctgtcaa aactgaaact tcctttccgg gg 392

<210> 1446
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 1446

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tttttatgac cattcatcat caccttctat gcctgcaaag agaatcttga gtgattcaga 120

aggcaagttc gattatcttg ctaaccagtg gcagatgata cactctggtc tctccctgaa 180

gttacatgaa tctcctaagg tacctgcagc aactgatgcg tctctccaag ggcgatgcaa 240

tgttaaatac agcgaatatc ctgttcttaa tggtctatcg actgagaatg ctggtggtaa 300

ctggccaata cgtccacgtg ctttgaatta ttatgaggaa gtggtcaatg ctcaagcgca 360

agctcaggct anggagcaag taacanaaca acccttcacg atacaagagg agacagc 417

<210> 1447
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-015-Q1-E1-A11

<400> 1447

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aggagacatg caaaaataaa tctctatccc ttgtttttct tcttcgcttc atcgattact 120

caaagaggtt gttggttgtg agaataatta gcttgttaag gaagacgtta tgatgcatca 180

gatgttgaat aagaaagatt cagctactca ttccactttg ccatacctta atactagcat 240

ctcttgggga gtggttccaa ctgattccgt tgctaatcgt cgcggttctg ctgaatcact 300

aagcttgaag gttgattcaa gacctgggca tatacaaact acaaagcaaa tcagttttca 360

agaccaagat tcatcttcaa cacagtccac tggtcaatct tatactgaag ttg 413

<210> 1448
<211> 416
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-B8

<400> 1448

ctttgagaga gagagcaaat gaaaaaaacc caaaaaactc ttttctccaa ccattaccat 60

ctcatgaaca ctctcacagg aggctctctc ttctcagaga gcctacccat ctaatatttc 120

ttcatctgag tctcttttac ttctctcaaa gtatcgatct ttattcttct ttttgtaaac 180

cctctctctc tctctgattt ctactgacct gtttggaaga tatgatggct catcactcca 240

tggacgatag agactctcct gataaaggat ttgattccgg caagtacgtt agatacacgc 300

cggaacaagt tgaagctctt gagagagttt atgctgagtg tcctaaacct agctctctga 360

gaagacaaca gcttattcgt gaatgtcnca ttctctgtaa catcgagcct cgacag 416

<210> 1449
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-F7

<400> 1449

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accatctcat gaacactctc acaggaggct ctctcttctc agagagccta cccatctaat 120

atttcttcat ctgagtctct tttacttctc tcaaagtatc gatctttatt cttctttttg 180

taaaccctct ctctctctct gatttctact gacctgtttg gaagatatga tggctcatca 240

ctccatggac gatagagact ctcctgataa aggatttgat tccggcaagt acgttagata 300

cacgccggaa caagttgaag ctcttgagag agtttatgct gagtgtccta aacctagctc 360

tctgagaaga caacagctta ttcgtgaatg tcncattctc tgtaacatcg agcctcgaca 420

g 421

<210> 1450
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-086-Q1-E1-F5

<400> 1450

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caaaaaactc ttttctccaa ccattaccat ctcatgaaca ctctcacagg aggctctctc 180

ttctcagaga gcctacccat ctaatatttc ttcatctgag tctcttttac ttctctcaaa 240

gtatcgatct ttattcttct ttttgtaaac cctctctctc tctctgattt ctactgacct 300

gtttggaaga tatgatggct catcactcca tggacgatag agactctcct gataaaggat 360

ttgattccgg caagtacgtt agatac 386

<210> 1451
<211> 327
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-013-Q1-E1-A1

<400> 1451

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cgaagatcac tctctgattc actctgagag acaaactggt ttactttggt tctgtttgac 120

aaaaggagac atgcaaaaat aaatctctat cccttgtttt tcttcttcgc ttcatcgatt 180

actcaaagag gttgttggtt gtgagaataa ttagcttgtt aaggaagacg ttatgatgca 240

tcagatgttg aataagaaag attcagctac tcattccact ttgccatacc ttaatactag 300

catctcttgg ggagtggttc caactga 327

<210> 1452
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-031-Q1-E1-A4

<400> 1452

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tgtgccatct tctgggaaac taaaacgtga tgattcatct gcacactatc aaaatggtgg 120

atctatacct caacaagatg gtgcaagcga tgctatccct gaggcaaact ttgaatgtgc 180

tgcactccgt ataacctatg ttggcgatag aaagatccca cgagatttga ttggctcatc 240

atcgaagatt ctccaagttg atgggccaat gcctgacccg tatgatgaaa tgttgtccac 300

acccaatata tacagttttc aaaggaccaa tgacaagttt aatgatggca aaactcctgg 360

tccaaacgaa atccaaacga gcactcctgt tgctgtacca aacgatatca ttgaagatga 420

tgaagagctg ttgaaccaag atgatgatga tgacgag 457

<210> 1453
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-G12

<400> 1453

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gcttcctaac aattgggctt ttctctgcct cttcctagga atctgaagct cttctctact 120

ctctactcta tcactccatc tgtgaacata tctttcttat tcttctaggc actatctatt 180

tttcactttt tgtaattgga atttggagat ggctatgcaa actgtgagag aaggtctctt 240

ctctgctcca cagacttctt ggtggactgc ttttggatct cagccgttgg ctccggagag 300

tctcgccggc gattctgact cattcgccgg agttaaggtc ggatctgtcg gagagacagg 360

acaacgtgtg gataaacaaa acaactctgc aacgcactta gctttctcac 410

<210> 1454
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-014-Q1-E1-E7

<400> 1454

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ctctgcctct tcctaggaat ctgaagctct tctctactct ctactctatc actccatctg 120

tgaacatatc tttcttattc ttctaggcac tatctatttt tcacttttg taattggaat 180

ttggagatgg ctatgcaaac tgtgagagaa ggtctcttct ctgctccaca gacttcttgg 240

tggactgctt ttggatctca gccgttggct ccggagagtc tcgccggcga ttctgactca 300

ttcgccggag ttaaggtcgg atctgtcgga gagacaggac aacgtgtgga taaacagagc 360

aactctgcaa cgcacttagc tttctcactt ggtgattgta agagtccaag acttgtgcca 420

aagcctc 427

<210> 1455
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-055-Q1-E1-D6

<400> 1455

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gaaacgtagg acataactca agaacatgtt cttcttacca aacaagagta gttaggctct 120

ttggtgttca tctagacacc acaagctctt ctccgccgcc tcctcctcct ccctcgattt 180

tggccgctgc aataaagaaa agtttcagca tggattgctt gccggcatgt tcctcctctt 240

cctcttcctt tgctggttat ctctccgatg gtctcgccca taaaacacct gaccgcaaaa 300

aaggggttcc atggacggcg gaagagcacc ggacgtgtct aattggatta gaaaagcttg 360

gaagaagaga ttggagagga atctctagaa acttcgt 397

<210> 1456
<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-020-Q1-E1-E8

<400> 1456

gaggcaagca accaaatctc agagacaatt ataacagtat agagaaggaa gaaagaaaag 60

aaaaagaaac cgttgttgat ttagatacag agaagagaag atcatctaac atgggaagat 120

ctcctatctc tgatgactct ggtctcaaga aaggtccttg gactcctgat gaagatgaga 180

aacttgtcaa ctatgttcaa aaacatggtc atagtagctg gagagcccct cccaaactcg 240

ctggtcttaa caggtgtggg aagagttgca ggctaagatg gacgaactac ttgagaccag 300

acatcaagag agggagattc tctccggacg aggaacagac tatcttgaat cctcattcag 360

ttcttgggaa caagtggtca acg 383

<210> 1457
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-A1

<400> 1457

aacacacaca ananaaaaaa actgtaacga ccaaaaaaaa agaggacgcg ttagaagaaa 60

aaaaaagaac aatccgataa aaagatccgg cgatgtcaaa cccgacccgt aagaatatgg 120

agaggattaa aggtccatgg agtccagaag aagatgatct gttgcagagg cttgttcaga 180

aacatggtcc gaggaactgg tctttgatta gcaaatcaat ccctggacgt tccggcaaat 240

cttgtcgtct ccggtggtgt aaccagctat ctccggaggt agagcaccgt gctttttcgc 300

aggaagaaga cgagacgatt attcgagctc acgctcggtt tggtaacaag tgggctacga 360

tctctcgtct tctcaatgga cgaaccgata acgctatcaa gaatcattgg aactcgacg 419

<210> 1458
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-059-Q1-E1-C11

<400> 1458

cccacgcgtc cgcccacgcg tccggttaag aaatatcata gtaatgacaa ccgtgataag 60

gacaatactg gtttgggcga tggtgataag gacaatactt gtaaggggga tgatgataag 120

gaaaaatctg gtagtggcgg ttgtgagaag gaaaatgaag ggaatggcgg aagtggtaag 180

gacaataatg gtaatggcga ttctcagcct gcggagtgtt caactggtca gaagcaggtt 240

gtctgcaaag aaattggttg tggaaaagcc tttaagtatc cttcacagct tcaaaagcat 300

caggattctc atgtgaaatt agactctgtg gaggcatttt gttccgagcc tgggtgtatg 360

aagtacttta ccaacgaaga atgcctcaag tcacacataa gatcctgtca tcagcacatc 420

aactgtgaga tatgtg 436

<210> 1459
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-064-Q1-E1-H5

<400> 1459

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cgtggtacac ctatgagtgt tgggaatttg gaagagttga ttgatgagaa tcacgctatt 120

gtttcttctt ctgttggacc tgagtactac gttgggattt tgtccttcgt tgataaagat 180

cagcttgaac ctggatgttc gattttgatg cataataagg ttctctctgt tgttgggatt 240

ctacaagatg aagtggatcc aatggtgtct gtgatgaaag ttgagaaagc tcctttggag 300

tcatatgctg atattggagg tttagaagct cagattcagg agattaagga agctgttgag 360

cttcctttga ctcatcctga gttgtatgaa gatattggta ttaaaccacc aa 412

<210> 1460
<211> 332
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-022-Q1-E1-A3

<400> 1460

gagacaagga ccatcgggag gattgaatcg gcaaggagat cggaaacctg atggtggaga 60

taagaaagag aagaagtttg agccggcggc accaccggct cgtgtaggga ggaagcaaag 120

gaagcagaaa tggccatagg cggcggcgag acttccgacg gtgactccgt ctactaagtg 180

taagctccgg ttactgaaat tggaacggat caaggattat ttgttgatgg aagaagagtt 240

tgtggcgaat catcagaagt tgaaacctca tgaacacaaa gctgacgaat atagatctaa 300

cgttgatgat cttcgtggta cacctatgag tg 332

<210> 1461
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-B4

<400> 1461

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tggtggaggc cgtggaggat ttaaccgtgg tcgtggtggt tacaaccgtg atgatggtaa 120

caatggatat tcaggggat acactaaacc ctcaggtgaa ggagatgttt caaagtcttc 180

ttacgagagg cgtggcggtg gtggtgctcc tcgtggttcc ttccgtggtg aaggtggtgg 240

acctggtggt ggtcgtcgtg gtggattcag caatganggt ggtgatgggg aacgtcctcg 300

aagggccttt gagcgtcgta gtggaactgg cagagggagt gacttcaagc gtgacggatc 360

tggtcgtggg aattggggaa ctccagngga agagatagct gctg 404

<210> 1462
<211> 337
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-035-Q1-E1-H7

<400> 1462

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gaaaacggat atggtggagg ctacagacgc tcataagaag gagatggagc tagacgtggt 120

gggcctgttg gtggataccg tggtgatcgc cgtggaagct acagcaatgg tggtgattca 180

ggtgactctg aaagaccacg caagaactat gaccgtcaca gtagaacagc gtacgggaat 240

gacgataaac gtgatggagc tggccgtgcg aattggggaa ccactcagga tgatattact 300

ccggtgactg aagaatccac agctgttgtg gacaaga 337

<210> 1463
<211> 347
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-080-Q1-E1-B2

<400> 1463

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cacagacgcc gtcgaaggtg gttcatctgc ggaatcttcc atgggaatgc gtcgaagagg 180

agctcatcga cctttgcaaa cgattcggca agatcgtcaa taccaagagc aatgtcggcg 240

ccaatcgcaa tcaagctttc gtcgaatttg ctgacttgaa tcaagctata tcaatggttt 300

cgtattaagc gtcatcttca gagcccgcac agattcgtgg gaaaact 347

<210> 1464
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-F8

<400> 1464

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gtatctaacg ccttgccgga gatgtcgagc tcaggccaaa ctcagttccg ttatacacag 120

acgccgtcga aggtggttca tctgcggaat cttccatggg aatgcgtcga ataggagctc 180

atctaccttt gcaaacgatt cggcaagatc gtcaatacca agagcaatgt cggcgccaat 240

cgcaatcaag ctttcgtcga atttgctgac ttgaatcaag ctatatcaat ggtttcgtat 300

tatgcttcat cttcatagcc cgcacagatt cgtgggaaaa ctgtctatat tcagtactct 360

aatcgccatg agattgttaa cagtca 386

<210> 1465
<211> 334
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-080-Q1-E2-B2

<400> 1465

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cacagacgcc gtcgaaggtg gttcatctgc ggaatcttcc atgggaatgc gtcgaagagg 180

agctcatcga cctttgcaaa cgattcggca agatcgtcaa taccaagagc aatgtcggcg 240

ccaatcgcaa tcaagctttc gtcgaatttg ctgacttgaa tcaagctata tcaatggttt 300

cgtagtatgc ttcatcttca gagcccgcac aaat 334

<210> 1466

<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-081-Q1-E2-A5

<400> 1466

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tcgaagagga tcagcttgct tccatgtcca ccgaagatat cactagagct actcgtcttc 180

tcgacaacga gattcgaatt ctcaaggaag acgcgcaaag aacaaatcta gaatgtgatt 240

cttacaagga gaagattaag gagaatcagg agaagattaa actcaacaag cagctgcctt 300

acttggttgg caacattgtc gagattttgg agatgaatcc agaagatgat gctgaggaag 360

atggtgcaaa tattgatctt gactcgcaac ggaaaggaaa atgtgttgtg ttgaaa 416

<210> 1467
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-017-Q1-E1-A6

<400> 1467

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ttctcttccc ggcgatctat ctctccgatt tgggtattga aatggcaact cctatggttg 120

aagatacgtc aagcttcgaa gaggatcagc ttgcttccat gtccaccgaa gatatcacta 180

gagctactcg tcttctcgac aacgagattc gaattctcaa ggaagacgcg caaagaacaa 240

atctagaatg tgattcttac aaggagaaga ttaaggagaa tcaggagaag attaaactca 300

acaagcagct gccttacttg gttggcaaca ttgtcgagat tttggagatg aatccagaag 360

atgatgctga ggaagatggt gcaaatattg atcttgactc gcaacggaaa ggaaaatgtg 420

ttgtgttgaa aacgtctaca c 441

<210> 1468
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-008-Q1-E1-F8

<400> 1468

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atgagcacca ctgctgctac tgtagcagga ggtgcggcac aaccaggcca gctggcgttc 120

caccagatcc atcagcagca gcagcagcaa cagctggcac agcagcttca agcattttgg 180

gagaaccaat tcaaagagat tgagaagact accgatttca agaaccacag ccttcccctt 240

gcgagaatca agaaaatcat gaaagcggat gaagatgtcc gtatgatctc ggctgaggcg 300

cctgtcgtgt ttgcaagggc ctgtgagatg ttcatcctgg agctgacact caggtcgtgg 360

aaccacactg aggagaataa gaggcggacg ttgcagaaga acgatattgc tgctgctgtg 420

actagaaccg ata 433

<210> 1469
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-043-Q1-E1-B12

<400> 1469

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aggaagaaga cgacgacgaa catacgcaac caccgaggaa tattactcgc cggaaaactg 120

gattacggcc aacagactcc ttcggtctct ttaataccga cgaccttgga gtggttgaag 180

aagaggattt ggaatggatt tcaaacaaaa atgcttttcc ggtgattgaa acattcgtcg 240

gtgtattacc gtcggagcat tttcctataa cgtctcttct ggaaagagaa gcgactgagg 300

taaaacagct gagtccggtt tcagtacttg agacgagtag ccatagctcc acaacgacta 360

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<210> 1470
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-B8

<400> 1470

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tgatatctca tttgatcaga tcgacgaaga gaggaagaag gtttgagctg agagatcttt 180

ggaggtagaa agaagatctc aaaaacgatg tcgtttacag gaactcagca gaaatgcagg 240

gcgtgcgaga agacagtgta ccctgtggag cttctctcag ctgatggaat ctcttatcac 300

aaggcttgct tcaaatgctc tcactgcaaa agcagacttc aactgagcaa ttattcatca 360

atggaacgag tggtgtattg taggcctcat tttgagcagc ttttcaagga gtctggtagt 420

ttcagc 426

<210> 1471
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-076-Q1-E1-B3

<400> 1471

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agatgaaact tgtgcaagaa gaataccgta aaggaccgtg gacagaacag gaggacatcc 120

tcttggtcaa ctttgtccac ttgttcggag atcgaagatg ggattttgta gcgaaagttt 180

caggtttgaa ggtggaggga gaaacataag aataggttta aacaaaacag gaaagagttg 240

caggttaagg tgggttaatt acctgcatcc tggtctcaaa cgtggtaaga tgactccaca 300

agaagagcgt ttagtccttg agcttcacgc caaatgggga aacaggtggt caaaaattgc 360

ccgggaatta ccggggagaa cagataatga gataaagaac tactggacga ctcatatgag 420

gaagaagctc aagagaag 438

<210> 1472
<211> 355
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-035-Q1-E1-D8

<400> 1472

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ttcgatcaga tccgattaag agaagcatat caggtcgggt atgactcgtc gatgttctca 120

atgcactcac aatggccacg cctctcggac ttgtcccaac cgcggcgtga tgctctttgg 180

tgttcggctc agcgaaggtt cgatccggaa atgtgcaagt atgggtaatc ttagccatta 240

cacgggttct ggatcgggtg ggcttggaac cgggttaaaa actccgggtt ctccgggtga 300

tgtcactgac catgtcgctg gtgagggtta ctcgtctgag gatttctttg ctggc 355

<210> 1473
<211> 375
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-G9

<400> 1473

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gagagagaag tagagaaatc gaaggaatct gtaaccgatt ttaagatctc aatttttagg 120

gttgttgatt tttcaatttc tgggttaatt ttttttaggg ttttcatttg gaatcatgtc 180

ggatgcgtat tgtacggatt gtaaaaagga gacggagttg gttgtcgatc actcagccgg 240

agataccctt tgctccgagt gtggtttggt tttggaatct cactccattg atgagacctc 300

tgagtggcgt accttcgcta atgaatcttc caacagcgat cccaatcgtg tcggtggtcc 360

aaccaacccg cttct 375

<210> 1474
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-055-Q1-E1-F7

<400> 1474

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acgatcatcg tgaacaggga agaccattcc agactaataa tcctcatccg aaggatgctc 120

aaacgaaaac caactcaagt aggagttgca caaaggttca caagcaggga attgcacttg 180

gccgttcagt ggatctttca aagttccaaa actatgagga gttagtcgct gagctggaca 240

ggctgtttga gttcaatgga gagttgatgg ctcctaagaa agattggttg atagtttaca 300

cagatgaaga gaatgatatg atgcttgttg gtgacgatcc ttggcaggag ttttgtttca 360

tggttcgcag aatcttcata tacacgaaag aggaagtgag gaagaatacc cggggac 417

<210> 1475
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-C9

<400> 1475

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atggtggaga taagaaagag aagaagtttg agccggcggc accaccggct cgtgtaggga 120

ggaagcaaac gaagcacaaa gggccagagg cggcggcgag acttccgacg gtgactccgt 180

ctactaagtg taagctccgg ttactgaaat tggcacggat caaggattat ttgttgatcg 240

aggaagagtt tgtggcgaat caagagaggt tgaaacctca cgaagagaaa gctgacgaag 300

atagatctaa ggttgatgat cttcgtggta cacctatgag tgttgggaat ttggaagagt 360

tgactgatga gaatcacgct attgtttcat cgtctgttgg acctgagtac ta 412

<210> 1476
<211> 311
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-018-Q1-E1-G7

<400> 1476

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ttgagggttt cgtttgatat ctggagaaag gggtttctgg aaacaaggag ttcataattc 180

gcgatcttga tctatcgatc ttcatttata tataaaagcg tgaatgagat tatgatggag 240

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gttacagcat t 311

<210> 1477
<211> 358

<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-060-Q1-E1-G8

<400> 1477

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ctacgaaatg gcatgtcgat gctgcctctg cccacgactc cagcatctgc agcaacaatg 180

tctacactct cgagatgtgc atgactggtc tggacagaga gaaagctgct gtcttctaca 240

aggatgaagc tgacaagact gggtcactga ctgataactc tggaatcaga aagatccttc 300

ccaagtctga gatctgcgac tttgaattcg agctctgcgg ctactctatg aactcaat 358

<210> 1478
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-043-Q1-E1-D11

<400> 1478

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agtctacagg cgtggaagga atggcaaaaa gctcgttctc tcctcctact acaagtcctg 120

tcgctcacac aacaaggcga gatggcctta tctgcaatcg gtttcgaagg ttacgagaaa 180

cggctcgagg tgactttctt tgagccaagc atctttcaag actccaaggg actgggactc 240

cgtgctctga ccaagtccca gcttgatgaa attcttacac ctgctgcatg cacgatcgtt 300

tcatctctct ccaacgatca attggactct tacgtactct ctgagtccag cttctttgtc 360

taccctaca aagtcatcat caagacttgc gggtacacta agctcctcct ctctatccca 420

<210> 1479
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-C5

<400> 1479

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atcgtttctc tcaaatttag ggttttctct tttctcgaaa gtcttgcggt tttctgaatc 120

atctctatct ggtttgaggg tttcgtttga tatctggaga aaggggtttc tggaaacaag 180

gagttcataa ttcgcgatct tgatctatcg atcttcattt atatataaaa gcgtgaatga 240

gattatgatg gagtcgaaag gtggtaaaaa gaagtccagc agtagtagtt ccttatttta 300

cgaagctccc ctcggttaca gcattgaaga cgttcgtcca aactgtggaa tcaagaaatt 360

caaatcttct gtctactcaa actgctcaaa gaggccat 398

<210> 1480
<211> 362
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-080-Q1-E2-B7

<400> 1480

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tgtcaagtct gtgaagtaca ctcgcggctc cttcctctgc cccggaggcc agccttttcc 120

tcaccgcagc ttctctgaag aagtctctgt tcttgatggg cactttactc agctgggctt 180

gaacagcgta gcctacttga tgggcaatga tgatgagact aagaaatggc atgtctatgc 240

tgcctctgcc caggactcca gcaactgcaa caacaatgtc tacactctcg agatgtgcat 300

gactggtctg gacagagaga aagctgctgt cttctacaag gatgaagctg acaagactgg 360

gt 362

<210> 1481
<211> 388
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 1481

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ctcttttctc gaaagtcttg cggttttctg aatcatctct atctggtttg agggtttcgt 120

ttgatatctg gagaaagggg tttctggaaa caaggagttc ataattcgcg atcttgatct 180

atcgatcttc atttatatat aaaagcgtga atgagattat gatggagtcg aaaggtggta 240

aaaagaagtc cagcagtagt agttccttat tttacgaagc tcncctcggt tacagcattg 300

aagacgttcg tccaaacggt ggaatcaaga aattcaaatc ttctgtctac tcaaactgct 360

caaagagggc atccctgagt acagcgtg 388

<210> 1482
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-B3

<400> 1482

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ccagtttata agtttcttct ttcagagctc cttttctgct ggttcccgga tctaatcgtt 120

ctctcctcct actacaagtc ctgtcgctca cacaacaagg cgagatgcgc ttatctgcaa 180

tcggtttcga aggttacgag aaacggctcg aggtgacttt ctttgagcca cacatctttc 240

aagactccaa gggactggga ctccgtgctc tgaccaagtc ccagcttgat gaaattctta 300

cacctgctgc atgcacgatc gtttcatcgc tctccaacga tcacttggac tcttacgtac 360

tctctgagtc cagcatcatt gtcgacccct acaaagtcat cat 403

<210> 1483
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-044-Q1-E1-A2

<400> 1483

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ctcgaaagtc ttgcggtttt ctgaatcatc tctatctggt ttgagggttt cgtttgatat 120

ctggagaaag gggtttctgg aaacaaggag ttcataattc gcgatcttga tctatcgatc 180

ttcatttata tataaaagcg tgaatgagat tatgatggag tcgaaaggtg gtaaaaagaa 240

gtccagcagt agtagttcct tattttacga agctcccctc ggttacagca ttgaagacgt 300

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ggcatcctga gttacagcgt gcacc 385

<210> 1484
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-B8

<400> 1484

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gggttttctc ttttctcgaa agtcttgcgg ttttctgaat catctctatc tggtttgagg 120

gtttcgtttg atatctggag aaaggggttt ctggaaacaa ggagttcata attcgcgatc 180

ttgatctatc gatcttcatt tatatataaa agcgtgaatg agattatgat ggagtcgaaa 240

ggtggtaaaa agaagtccag cagtagtagt tccttatttt acgaagctcc cctcggttac 300

agcattgaag acgttcgtcc aaacggtgga atcaagaaat tcaaatcttc tgtctactca 360

aactgctcca agaggccatc ctgagtacca gcgtgcaccg atcttcataa tat 413

<210> 1485
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-060-Q1-E1-E10

<400> 1485

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gaaagtcttg cggttttctg aatcatctct atctggtttg agggtttcgt ttgatatctg 120

gagaaagggg tttctggaaa caaggagttc ataattcgcg atcttgatct atcgatcttc 180

atttatatat aaaagcgtga atgagattat gatggagtcg aaaggtggta aaaagaagtc 240

cagcagtagt agttccttat tttacgaagc tcccctcggt tacagcattt aagacgttcg 300

tccaaacggt ggaatcaaga aattcaaatc ttctgtctac tcaaactgct ccaaaaggcc 360

atcctgagta ccagcgtgca ccgatcttca taatatag 398

<210> 1486
<211> 413
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-018-Q1-E1-D6

<400> 1486

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tctggagaaa ggggtttctg gaaacaagga gttcataatt cgcgatcttg atctatcgat 180

cttcatttat atataaaatc gtgaatgaga ttatgatgga ctcgaaatgt ggtaataaga 240

agtccagcag tagtagttcc ttattttacg aagctcacct cggttacagc attgaagacg 300

ttcgtccaaa cagtggaatc aagaaattca aatcttctgt ctactcaaac tgctccaaaa 360

tgccatcctg agtaccaacg tgcaccgatt ctcataatat agttatagct ttc 413

<210> 1487
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-028-Q1-E1-E8

<400> 1487

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ggttttctga atcatctcta tctggtttga gggtttcgtt tgatatctgg agaaaggggt 120

ttctggaaac aaggagttca taattcgcga tcttgatcta tcgatcttca tttatatata 180

aaagcgtgaa tgagattatg atggagtcga aaggtggtaa aaagaagtcc agcagtagta 240

gttccttatt ttacgaagct cccctcggtt acagcattga agacgttcgt ccaaacggtg 300

gaatcaagaa attcaaatct tctgtctact caaactgctc caagaggcca tcctgagtac 360

cagcgtgcac cgatcttcat aatatagtta tag 393

<210> 1488
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-041-Q1-E1-G9

<400> 1488

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tttctgaatc atctctatct ggtttgaggg tttcgtttga tatctggaga aaggggtttc 120

tggaaacaag gagttcataa ttcgcgatct tgatctatcg atcttcattt atatataaaa 180

gcgtgaatga gattatgatg gagtcgaaag gtggtaaaaa gaagtccagc agtagtagtt 240

ccttatttta cgaagctccc ctcggttaca gcattgaaga cgttcgtcca aacggtggaa 300

tcaagaaatt caaatcttct gtctactcaa actgctccaa gaggccatcc tgagtaccag 360

cgtgcaccga tcttcataat atagttatag ctttcttt 398

<210> 1489
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-037-Q1-E1-D9

<400> 1489

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agtcttgcgg ttttctgaat catctctatc tggtttgagg gtttcgtttg atatctggag 120

aaaggggttt ctggaaacaa ggagttcata attcgcgatc ttgatctatc gatcttcatt 180

tatatataaa agcgtgaatg agattatgat ggagtcgaaa ggtggtaaaa agaactccag 240

cactagtagt tccttatttt acgaagctcc cctcggttac agcattgaag acgttcgtcc 300

aaacggtgga atcaagaaag tcaaatcttc tgtctactca aactgctcca agaggccatc 360

ctgagtatca gcgtgcaccg atgttcataa tatagttata gctttcctta cgtttcagtt 420

taaa 424

<210> 1490
<211> 404
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<213> Arabidopsis thaliana

<223> Clone ID: LIB22-064-Q1-E1-E8

<400> 1490

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atatctggag aaaggggttt ctggaaacaa ggagttcata attcgcgatc ttgatctatc 180

gatcttcatt tatatataaa agcgtgaatg agattatgat ggagtcgaaa ggtggtaaaa 240

agaagtccag cagtagtagt tccttatttt acgaagctcc cctcggttac agcattgaag 300

acgttcgtcc aaacggtgga atcaagaaat tcaaatcttc tgtctactca aactgctcca 360

agaggccatc ctgagtacca gcgtgcaccg atcttcataa tata 404

<210> 1491
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 1491

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ggttttctct tttctcgaaa gtcttgcggt tttctgaatc atctctatct ggtttgaggg 120

tttcgtttga tatctggaga aaggggtttc tggaaacaag gagttcataa ttcgcgatct 180

tgatctatcg atcttcattt atatataaaa gcgtgaatga gattatgatg gagtcgaaag 240

gtggtaaaaa gaagtccagc agtagtagtt ccttatttta cgaagctccc ctcggttaca 300

gcattgaaga cgttcgtcca aacggtggaa tcaagaaatt caaatcttct gtctactcaa 360

actgctccaa gaggccatcc tgagttacag cgtgcaccga tcntcataat atagttatag 420

ctt 423

<210> 1492
<211> 404
<212> DNA
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<223> Clone ID: LIB22-042-Q1-E1-C8

<400> 1492

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gcatggatgt tgctagaaag ggtttgattc ttgctcgact tcttgggaag aggataatta 240

tggacagcat taagatagag agcttgtatc cagaagagat gggacctgga ctcatgtctg 300

tggatgattt cctccataat ggaatagtaa aacttgatca gaatatagag gagagagtta 360

aaaaagcttc atcaaaaggg tgtgtgcttc gttatgtctg tgtg 404

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<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-086-Q1-E1-G7

<400> 1493

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aaggagatct tccccaagag tcaccaacga gggtgtccag aaggctgctg ctgctttgaa 120

gggatctgac caccgtcgtg caaccaatgt tagtgctagg ctagatgctc agcacaagaa 180

gctcaatctc ccaatcctac caaccacaac cattggatcc ttcccacaga ctgtagagct 240

caggagagtt cgtcgtgagt acaaggccaa aaaggtctca gaggaggact acgttaaagc 300

catcaacgaa gagatcaaga aagttgttga cctccaagag gaacttgaca tcgatgttct 360

tgtccacgga tagccagata gaaacgacat 390

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<211> 430
<212> DNA
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<223> Clone ID: LIB22-001-Q1-E1-F8

<400> 1494

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tcaaaatggc ttcacacatt gttggatacc cacgtatggg ccctaagaga gagctcaagt 120

ttgcattgga atctttctgg gatggtaaga gcactgctga ggatcttcag aaggtgtctg 180

ctgatctcag gtcatccatc tggaaacaga tgtctgccgc tgggactaag ttcatcccta 240

gcaacacctt tgctcactac gaccaggttc ttgacaccac cgccatgctc ggtgctgttc 300

cacctaggta tggatacact ggtggtgaga tcggccttga tgtttacttc tccatggcta 360

gaggaaatgc ctctgtgcct gccatggaaa tgaccaagtg gttcgacacc aactaccatt 420

acatcgtccc 430

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-044-Q1-E1-E1

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ccacctggat tcagcttgac gagcctgtcc ttgttatgga tcttgagggt cagaaactcc 180

aggcctttac tggtgcctat gctgaacttg aatcaactct ttctggtttg aatgttcttg 240

tcgagaccta cttcgctgat atccctgctg aggcatacaa gaccctaacc tcattgaagg 300

gtgtgactgc ctttggattt gatttggttc gtggcaacaa gacccttgat ttggtcaagg 360

caggtttccc tgagggaaag tactctttgc tggtgttgtt gatggaaggg acatctg 417

<210> 1496
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-A10

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gtatgggccc taagagagag ctcaagtttg cattggaatc tttctgggat ggtaagagca 120

ctgctgagga tcttcagaag gtgtctgctg atctcaggtc atccatctgg aaacagatgt 180

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<210> 1497
<211> 391

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 1497

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ctttgaaggg atctgaccac cgtcgtgcaa ccaatgttag tgctaggcta gatgctcagc 300

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tanagctcaa gagagttcgt cgtgagtaca a 391

<210> 1498
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-028-Q1-E1-F1

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agcctgcact caagaacatg gttgatgcgg ctaagctcat ccgctcccag ctcgccagtg 300

ccaagtgaag aaaagcttga tttgaacaag gaaacgtttt tttttctcta aaatggttgt 360

gttttatttg gtttaataac tttcttaaaa atatttttag tc 402

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<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-E7

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tcaatctccc aatcctacca accacaacca ttggatcctt cccacagact gtagagctca 180

ggagagttcg tcgtgagtac aaggccaaaa aggtctcaga ggaggactac gttaaagcca 240

tcaaggaaga gatcaagaaa gttgttgacc tccaagagga acttgacatc gatgttcttg 300

tccacggaga gccagagaga aacgacatgg ttgagtactt tggtgagcag ttgtctggtt 360

ttgccttcac tgcanacgga tgggtccaat cctatggatc tcgctgtgtg aagccacagt 420

tatctatggt gatgtgagcc gtcccaagca atgaccg 457

<210> 1500
<211> 421
<212> DNA
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<223> Clone ID: LIB22-016-Q1-E1-G8

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tttggcttca aggagatctt ccccaagagt caccaacgag ggtgtccaga aggctgctgc 180

tgctttgaag ggatctgacc accgtcgtgc aaccaatgtt agtgctaggc tagatgctca 240

gcagaagaag ctcaatctcc caatcctacc aaccacaacc attggatcct tcccacagac 300

tgtagagctc aggagagttc gtcgtgagta caaggccaaa aaggtctcag aggaggacta 360

cgttaaagcc atcaaggaag agatcaagaa agttgttgac ctccaagagg aacttgacat 420

c 421

<210> 1501
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-A2

<400> 1501

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gtcccgtcac cattctcaac tggtcctttg tcaggaacga ccagcccagg cacgaaacct 180

gttaccagat cgctttggcc atcaaggacg aagtcgagga tcttgagaaa ggtggaatcg 240

gtgtcattca gattgatgag gctgcactta gagaaggact accactcagg aaatccgagc 300

atgctttcta cttggactgg gccgtccact ccttcagaat caccaactgt ggagtccaag 360

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<210> 1502
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 1502

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cggctttggc ttcaaggaga tcttccccaa gagtcaccaa cgagggtgtc cagaaggctg 180

ctgctgcttt gaagggatct gaccaccgtc gtgcaaccaa tgttagtgct aggctagatg 240

ctcagcataa gaagctcaat ctcccaatcc taccaaccac aaccattgga tccttcccac 300

agactgtaca gctcaggaga gttcgtcgtg agtacaatgc caaaaaggtc tcagaggang 360

actacgttaa agccatcaag gaagagatca agaaagttgt tgacctccaa gaggaacttg 420

acatc 425

<210> 1503
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-007-Q1-E1-B3

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cttggactgg gccgtccact ccttcagaat caccaactgt ggagtccaag acagcaccca 180

gatccacact cacatgtgct actcccactt caatgacatc atacactcca tcatcgacat 240

ggatgctgat gtcatcacca ttgagaactc caggtctgat gagaagcttc tttccgtgtt 300

ccgtgaagga gtgaagtacg gtgctggaat cggtccagga gtctacgaca tccactctcc 360

aagaatacca tcttctgagg aaatcgcaga cagggtcaac aagatgcttg ctgtc 415

<210> 1504
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-037-Q1-E1-B8

<400> 1504

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cctaatcttt cacctgtgta aaacctaatt tatcaatctc caacaacaag atcagatatg 180

aaatgactga atctggtgga tcaaggaggt accggcatga aaagtgaggc tcccatcgga 240

cccaagaaaa caagttttgg aatcgttcac cggtcaacta ctaaccttct cccgattccc 300

tccttcggca agaaaaactt ctcaaccacg cctttcaacc acaacggaag gcccgcaacc 360

aaaagggcc 369

<210> 1505
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-074-Q1-E1-G5

<400> 1505

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tccatgcctc cgccgggatt tcttcctcat tcaccgggga cgctggatta tcctccagga 180

tcttaagatt tcctcctaat ttcgtccgtc agctgagcat taaagcccgt agaaactgta 240

gcaacatcgg tgttgcacag atcgtggcgg ctaagtggtc caacaaccca tcctccgcgt 300

taccttcggc ggcggcggct gctgctacct cgtctgcatc tgcggtttct tccgccggat 360

ctgcagccgg aacctcgtcc gccggcgccg ccccc 395

<210> 1506
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-F8

<400> 1506

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tctcatcatt ccagtgccct accatcttct cctcctcctc aatctccggc tttcaatgcc 120

gttctgatcc agatctcgtc ggttctcccg tcggtggatc atctcgccgt cgtgtccatg 180

cctccgccgg gatttcttcc tcattcaccg gggacgctgg attatcctcc aggatcttaa 240

gatttcctcc taatttcgtc cgtcagctga gcattaaagc ccgtagaaac tgtagcaaca 300

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ccggcggcng cggtgctgct acctcgtctg c 391

<210> 1507
<211> 288
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-D12

<400> 1507

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ctgaatcatc tctatctggt ttgagggttt cgtttgatat ctggagaaag gggtttctgg 120

aaacaaggag ttcataattc gcgatcttga tctatcgatc ttcatttata tataaaagcg 180

tcaatgagat tatgatggaa tcgaaaggtg gtaaaaagaa ttccagcagt agtatttcct 240

tattttacga agctcccctc ggttacacca ttgaagacgt tcgtctaa 288

<210> 1508
<211> 427

<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-041-Q1-E1-D10

<400> 1508

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aaaatcaaaa tggcttcaca cattgttgga tacccacgta tgggccctaa gagagagctc 120

aagtttgcat tggaatcttt ctgggatggt aagagcactg ctgaggatct tcacaaggtg 180

tctgctgatc tcaggtcatc catctggaaa cagatgtctg ccgctgggac taagttcatc 240

cctagcaaca cctttgctca ctacgaccag gttcttgaca ccaccgccat gctcggtgct 300

gttccaccta ggtatggata cactggtggt gagatcggcc ttgatgttta cttctccatg 360

gctagaggaa atgcctctgt gcctgccatg gaaatgacca agtggttcga caccaactac 420

cattaca 427

<210> 1509
<211> 337
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-B6

<400> 1509

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gaagccgcac ttagagaagg attgcctctt aggaaagccg aacactcttt ctacttggac 180

tgggctgttc actctttcag aatcaccaac tgtggcgtcc aagacagcac tcagattcac 240

actcacatgt gttactcaaa cttcaacgag cccaagaggc cgtcagacaa gccccttcgt 300

ctcccacttc aggatgtcta caagattggt ggtattg 337

<210> 1510
<211> 353
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-F6

<400> 1510

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gaagccgcac ttagagaagg attgcctctt aggaaagccg aacactcttt ctacttggac 180

tgggctgttc actctttcag aatcaccaac tgtggcgtcc aagacagcac tcagattcac 240

actcacatgt gttactcaaa cttcaacgag cccaagaggc cgtcagacaa gccccttcgt 300

ctcccacttc aggatgtcta caagattggt gggattggga ccgtgccaat ggg 353

<210> 1511
<211> 294
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-054-Q1-E2-E4

<400> 1511

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ttatctccgc atgacactgt gcgactgttt gcgcctggaa cggtgagact cgccaggagt 120

acagcgaggt gtacccaacg tgctctacca ttggggtcta cgtgcaggtc ctgatctgcg 180

tgttcattct ggtggagaca caactctttt gaggcaatac ggtgttaaag ccgacgagct 240

ctttgagaag actgatgttg ttcctgatgc tacttctaat gaatcccctc agtt 294

<210> 1512
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-077-Q1-E1-A11

<400> 1512

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tgcattggag tctttctggg atggcaagag cagtgccgat gatttgcaga aggtgtctgc 180

tgatctcagg tctgatatct ggaaacatat gtctgctgct gggattaagt atatcccaag 240

cagcaccttt tctcattatg accaggtgct tgacaccacc gccatgcttg gtgctgttcc 300

atctagatat ggatttacca gtggtgagat cggtctcgac gtttacttct ccatggctag 360

aggaaatgcc tctgttccaa ctatggatat gaccacgtgg 400

<210> 1513
<211> 357
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-B4

<400> 1513

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caaaaaacaa acaaaaatgg cttcccacat tgttggatat ccacgtatgg gacctaagag 120

agagctcaag tttgcattgg agtctttctg ggatggcaag agcagtgccg atgatttgca 180

gaaggtgtct gctgatctca ggtctgatat ctggaaacag atgtctgctg ctgggattaa 240

gtatatccca agcaacacct tttctcatta tgaccaggtg cttgacacca ccgccatgct 300

tggtgctgtt ccatctagat atggatttac cagtggtgag atcggtctcg atgttta 357

<210> 1514
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-080-Q1-E2-D12

<400> 1514

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ctttctggga tgggaagagc agtgccgatg atttgcagaa ggtgtctgct gatctcaggt 180

ctgatatctg gaaacagatg tctgctgctg ggattaagta tatcccaagc aacacctttt 240

ctcattatga gcaggtgctt gacaccaccg ccatgcttgg tgcagttcca tctagatatg 300

gatttaccag tggtgagatc ggtctcgatg ttgacttctc catggctaga ggaaatgcct 360

ctgttccagc tatggagatg accaagtggg ttgacaccaa ct 402

<210> 1515
<211> 373
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-063-Q1-E1-A4

<400> 1515

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ttgggtaccc acgtatgggc cctaagagag agctcaagtt tgcattggaa tctttctggg 120

atggtaagag cactgctgag gatcttcaga aggtgtctgc tgatctcagg tcatccatct 180

ggaaacagat gtctgccgct gggactaagt tcatccctag caacaccttt gcgcactacg 240

accaggttct tgacactacc gccatgctcg gtgctgttcc acctaggtat ggatacactg 300

gcggtgacat cggccttgat gtttacttct ccatagctag aggaaatgcc tctgtgcctg 360

gcatgggaat gac 373

<210> 1516
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-038-Q1-E1-A9

<400> 1516

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ccctaagaga gagctcaagt ttgcattgga atctttctgg gatggtaaga gcactgctga 180

ggatcttcag aaggtgtctg ctgatctcag gtcatccatc tggaaacaga tgtctgccgc 240

tgggactaag ttcatcccta gcaacacctt tgctcactac gaccaggttc ttgacaccac 300

cgccatgctc ggtgctgttc cacctaggta tggatacact ggtggtgaga tccgccttga 360

tgtttacttc tccatggcta gaggaaatgc ct 392

<210> 1517
<211> 378
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-006-Q1-E1-F5

<400> 1517

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atccactctc caagagtacc atcttctgag gaaatcgcag acagggtcaa caagatgcat 180

gctgtcctat agcataacat cctttgggtt aaccctgact gtggtctcaa gacccgtatg 240

tacatcgatg tcaagcctgc actcacgaga attgctgatg ctgataagct catctgctca 300

cagctcgcca gtgccacatg atgatgagct tgatttgacc atggaaacgt ctatttgtct 360

cgaaaatggt tgtgtttt 378

<210> 1518
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-049-Q1-E1-C11

<400> 1518

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aacacggttg atgcagttaa gctcatccgc tctcatctcg tcagtgccaa gtgtcgaaga 180

gcttgatttg aacaatgaaa cgtttttttt tctctaacat ggatgtgttt tagttggttt 240

actaactttc ttgtcaatat ttttactcta aggtagattt gctgcacatg gatgctttct 300

tgtcgagaga gacaaaggct atagcatcat ttggatttga tgcaatgtca gtgattatcc 360

ttttgtctcc aatatatttc tctgatgtaa agtccttttt ctaaggtatc ttgaaa 416

<210> 1519
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-074-Q1-E1-G3

<400> 1519

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tcccacattg ttggatatcc acgtatggga cctaagagag agctcaagtt tgcattggag 120

tctttctggg atggcaagag cagtgccgat gatttgcaga aggtgtctgc tgatctcagg 180

tctgatatct ggaaacagat gtctgctgct gggattaagt atatcccaag caacaccttt 240

tctcattatg accaggtgct tgacaccacc gccatgcttg gtgctgttcc atctagatat 300

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tctgttccaa ctatggagat gaccaagttg tttgacacca 400

<210> 1520
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-067-Q1-E1-F6

<400> 1520

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cctcctctcc gattcttcct ccgtcagtaa aagaaaatca aaatggcttc acacattgtt 120

ggatatccac gtatgggccc taagagagag ctcaagtttg cattggcatc tttctgggat 180

ggtaagagca ctgctgagga tcttcagaag gtgtctgctg atctcaggtc atccatctgg 240

aaacagatgt ctgccgctgg gactaagttc atccctagca acacctttgc tcactacgac 300

caggttcttg acaccaccgc catgctcggt gctgttccac ctaggtatgg atacactggt 360

ggtgagatcg gccttgatgt ttacttctcc atggctacag gaaatgcctc tgtgcctgcc 420

at 422

<210> 1521
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-010-Q1-E1-A4

<400> 1521

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caagtttgca ttggaatctt tctgggatgg taagagcact gctgaggatc ttcagaaggt 180

gtctgctgat ctcaggtcat ccatctggaa acagatgtct gccgctggga ctaagttcat 240

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tgttccacct aggtatggat acactggtgg tgagatcggc cttgatgttt acttctccat 360

ggctagacga catgcctctg tgcctgccat ggaaatgatc aagtggttcg acatcaacta 420

<210> 1522
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-069-Q1-E1-A6

<400> 1522

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tcaaaatggc ttcacacatt gttggatacc cacgtatggg ccctaagaga gagctcaagt 120

ttgcattgga atctttctgg gatggtaaga gcactgctga ggatcttcag aaggtgtctg 180

ctgatctcag gtcatccatc tggaaacaga tgtctgccgc tgggactaag ttcatcccta 240

gcaacacctt tgctcactac taccaggttc ttgacaccac cgccatgctc ggtgctgttc 300

cacctaggta tggatacact ggtggtgaga tcggccttga tgtttacttc tccatggcta 360

gaggaaatgc ctctgtgcct gccatggaaa tgaccagtgt cgcacactac atacatcgcc 420

tgattggccc 430

<210> 1523
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-G6

<400> 1523

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cattgcagag cttaaggcag ctggtgcctc ctggattcag cttgatgagc ctctctttgt 120

catggatctc gagggtcaca aactccaggc ttttagcggt gcctatgctg agcttgaatc 180

aactctctct ggtctgaatg ttcttgtgga gacctacttc gctgatatcc ctgctgaagc 240

atacaagacc cttacttcct tgaagggtgt gactgccttc ggatttgatt tggttcgtgg 300

caccaagacc attgacttga tcaagtcagg tttcccacag ggcaagtacc tctttgctgg 360

tgttgttgac ggaaggaaca tctgggccaa tgacctcgct gcctctctca tca 413

<210> 1524
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-082-Q1-E2-E11

<400> 1524

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gagctcgccg aagttgagat gcctggactc atggcttgtc gtaccgaatt cggaccttct 180

cagccattca aaggcgctag aatcaccgga tctcttcaca tgaccatcca aaccgccgta 240

ctcatcgaaa ccctaactgc tctcggtgct gaagtcagat ggtgttcctg caacatcttt 300

tccactcaag accacgccgc cgcagccatc gctcgtgact ccgccgctgt tttcgcctgg 360

aaaggtgaga ctcttcagga gtactggtgg tgttacgagc gtgctctaga ttggggtcca 420

ggtggtggtc ctgatctgat tgttgatgat 450

<210> 1525
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-003-Q1-E1-D11

<400> 1525

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gcattggaat ctttctggga tggtaagagc agaagaagct caatctccca atcctaccaa 180

ccacaaccat tggatccttc ccacagactg tagagctcag gagagttcgt cgtgagtaca 240

aggccaaaaa ggtctcagag gaggactacg ttaaagccat caaggaagag atcaagaaag 300

ttgttgacct ccaagaggaa cttgacatcg atgttcttgt ccacggagag ccagagagaa 360

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<210> 1526
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-F6

<400> 1526

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ttcctttgaa gaagctgttt gttgtcgatg gatctacaag gtcaagccat agcaatgctt 180

acatgtatgg tttctttaag aacaaaagga ttgttcttta tgatacgttg attcagcagt 240

gcaagaatga ggatgaaatt gtggcggtta ttgcacacga gcttggacat tggaaactga 300

atcacactac atactcgttc attgcagttc aaatccttgc cttcttacaa tttggaggat 360

acactcttgt caagaaactc cactgatctc ttcaggagtt tcggatttga tacacaacct 420

gttcncaatg ggttgntnaa aatttaacca aacggtannc ccactggcaa natctantaa 480

nctttggcct gaacctcgtt agtcn 505

<210> 1527
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-F7

<400> 1527

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gcggcggaag aagctacgta acttcacctc catcattctc caacgacgct aaaaagcttc 180

tcgtctgcac aggaaacact gtctctgttt tcagcgccgc cactggctta caggtcatac 240

agctccagta acaactctaa ttgttgttcc tgcatcaagt cctgctcaaa aaatcctttg 300

ttattgttgg actgcttctc ttgatggtac tattcgtcat tgggatttct ctggacctga 360

gctaatgaaa actaattgat ggctcaacct tccgaattaa nccaanggta aacnancncn 420

tttggagcga acctcaacaa an 442

<210> 1528
<211> 508

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-F8

<400> 1528

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taaagtgcat caaanccact aaaattacca aagtgacatt cactttcaca agaaaatgtt 180

tccaaaatgg aaaaaggana aaaaaaacaa tggaagtgtn aacaacatca gaagatatac 240

cttganagaa cataagccaa tggcaatcat gataatggnt aacttgataa gagcaatacg 300

agactaataa tgatgtanga tcatcatcat gaatcacagg aaataaggaa cacctgtcct 360

tggccctctc atttgattgg tcncctccgt cccccgtgaa aaacntnaaa ttccctttca 420

angttgcnnt ngaaacccca ttntnaaacc cccattccca aaannggttn canttatttg 480

gggccagacc aacacagttt caaaaacc 508

<210> 1529
<211> 521
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-G1

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gggatttgac cattttcatc ttcaaacaat ggcggtttca aagcttacat tggctgctac 120

gagcggtaag agctgcaaaa tactcttagg gctgagatta cttgccttct cagccacgtt 180

atctgcagct attgtaatgg gactcaacaa agagacaaag acttttattg tgggcaaagt 240

tggaaatact ccaattcaag ctacttttac tgctaagttc gaccacacac cagcttttgt 300

gtttttcgta gtagctaatg caatggtgag cttccacaac ttgttgatga ttgctcttca 360

gatatttgga gggaaaatgg agttcactgg gttttcggct tctctcaatc gccaatcctt 420

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aggtaggaaa gaacgggaac aaacacgcca agatgggaca a 521

<210> 1530
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-G10

<400> 1530

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aatgtcgccg gtaacttcta tttcttactt gtaggatacg taatcaatcc tctagacgtc 180

tctgcttgca taaggaattg gacattagtg ttttaagtga atcctagaaa tccggaattg 240

taaccataac aggaaattag gctcatgtag gttggttttt tggtctcccc tgaagaggct 300

ggattgtata tggttttgtg aagctgatat cttgatttct gctgaaacag cgattgagac 360

aacattgtgg tctatcgagt ggggaattgc agagctagtg aancatcctg aaatccaaa 419

<210> 1531
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-G11

<400> 1531

acgcgtccgt tcaacacctg aggtgcgcga agatagacac ttcttcatcc tctccgtaat 60

tctcaaaatt agggttttct tccggcagct ctctcagttg tactgcaagc attcttttct 120

agatatttaa gatgtcaagg acgaggactg ctgcttctga ggctcatgac tccatggaat 180

ctgaggaaag ggtagacctt gatggtgaca atgatcctga ggagattctg gaggaggaag 240

ttgaatacga agaagttgaa nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnaag gcatgttgaa cttcttgcac ttcctccaca tggttcaaaa g 411

<210> 1532
<211> 507

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-G2

<400> 1532

ccggnccaaa aattcccgaa ncgacccacg cntccgccca cgcgtccgta ttttctctct 60

ctcagttaac cagagagagc atcaatggct tctacttctt ctctagcgct ctcacaagct 120

ctccttacac gagccatctc tcacaatggc tctgaaaact gcgtctctat accagctttc 180

tctgctctca aatccacttc tccacgcacc agtggcacca tctcttcccg tcgacgaaac 240

gcctccacga tcagtcactc tctccgccct ctggttcgtg cagccgccgt agaggcaatc 300

gtgacaagtt ctgattcgtc cctggttgat aagtcggtga acacgatcag gtttctggca 360

atagatgcgg ttgagaangn gaaatcangt catccaagtc ctcctaangg gcgtgcnccg 420

angttccnan attttggtcn aatgaaattc atgaanttta accccaagaa accttaacgg 480

gtttaaaccg tgatcgtttc gttcccn 507

<210> 1533
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-G4

<400> 1533

caantattcg cggaatcgac ccacgcgtcc gaaaggacat actgacatat cggctgcacc 60

aagagtcgct tctactggga ctaaagggat agtagaagtg tagagggata cattccaaac 120

catgtgggat atgagcctgt tgtgcagaga aagggtccag gattcccttc ttttactgaa 180

ggaggccatt ctactcagtt gcttcagaaa tatggatctg atgataataa cagtttccac 240

aatggtaagg atgcagatga cgttttaaga gagtcgtctc ctgggtttga tgttcttgtg 300

gataatgagg ctggagattc tgagtattat catgttgaag atcgatatgg acgtagaagt 360

caggagagag ggaactcaga gtatgaccct gatttcaatg caanttccga atggggatta 420

aanaaccatt acntgaacaa cgttttggat ccanatgatc ggagggaaga caggggatgg 480

ggccatcgtc nagtttctct 500

<210> 1534
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-G5

<400> 1534

acgcgtccga tctcctgtcc ttttttcata tataataatt catcataaat atttattgat 60

ttgattctat ctcttatata tattttcgat ctctcctgaa aagagaaaaa agttggaaac 120

ttcgacgaat gtgtttataa atcttttttat tttctatctg tcttgattta gttttatctt 180

ttttggaatc ggtctgaagt tggacaaaag aatccgccat tttctcntcg gtctctctgc 240

tcttctcttc agtatcggat ctgggtctcc ttcgctttcn tttcaagatt attttgggag 300

acnaggaggc gttagctgta attcattgta nacttgcttt ggcnattaaa gcccgtcaca 360

caaaaaaaag taaaaagcaa canacncncn tnnattgnaa ncacttttt aaggganaag 420

ggnggggcct ncttnnggnc ccggtgggga aaaaatttgg ccaaaagana ttac 474

<210> 1535
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-G6

<400> 1535

tcccgggncg acccacgcgt ccggacgtgt ctccgtcgta tgaaagcctt gtggatggaa 60

gcgggagatt catccccaac agaaaagtat tggagttaag gcagaagttg atcaagttta 120

tggaaactca tatctaccca atggaaaacg agttctccaa acttgctcaa tcagatatgc 180

gatggaccgt tcaccctcag gaggaaaagt taaaggaaat ggcaaagaga gaaggcctat 240

ggaacttatt tgttcctgta gatagtgctg ctagagctag aagagaactg gcggctaccg 300

agaataaaca taacctctcg ggcaagtctt ttgatcaatt gtttggtgag ggcctcacga 360

acctggagta tggttacctt tgtgaaatnn aggggtcctt ccggtttggg cnccanaggt 420

gtttaactgt gggtgcacca gatactggga aacatggagg tgatactgcg gtatggtaac 480

aaagaac 487

<210> 1536
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-G7

<400> 1536

acgcgtccgg ttgtacaagt accaaggatg ttggtacgac aaagatattc tccaagcaat 60

cctcaatttc aacaaaaact ttcagccaca agaaacggat ataattgttg cttctttccc 120

caaatcgggt acgacttggc tcaaggcact cacattcgca ctcgcgcaaa gatcaaaaca 180

cacttcagac aatcatcctc tgctaactca taatcctcat gagctagtgc cgtacctcga 240

gctcgatctt tatctcaaaa gctcgaaacc ggatttgacc aagttgccat catcatctcc 300

gagattgttc tcaacccaca tgtcctttga tgcgcttaaa gtaccgttga aagagtctcc 360

ttgcaagatn gtgtacntgt gcaaggacct tgaaanacct tntggggaac cacttggggg 420

gtttccaaaa acnccatgan tgggggaaaa caatttaaag tcccaaggct ttgttcg 477

<210> 1537
<211> 531
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-G8

<400> 1537

cntttacgcc gccttttacn gggcccaaat antngtcnaa acattcccgg gncgacccac 60

gcgtccgcgg acgcgtgggg ttcgaatcgg gcaattttcg tctggagaaa tctggagata 120

ggattttgat cgatttctaa gctctaatct cagtttttg ggtagctccg gtgatccttg 180

agatggcggg tcagaatcct aacatggatc aattcgaggc ctacttcaaa agagcagatt 240

tagacggaga tggtcggatc agtggtgccg aagctgttgg attttttcaa ggatctggtt 300

tgtctaagca ggttctcgcc cagatatggt cgctttctga tcggtcacac agtggtttcc 360

ttgatcggca aaacttttat aattctctga gacttgtaac agttgcacag agcaagagag 420

atntgacacc tgagaatggt naagcaacac cggaaaannn ccnggaanaa nccaattncc 480

acctcccaaa anttaanctt tcaactancc ctggnacccc gacctaatcc t 531

<210> 1538
<211> 509
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-H1

<400> 1538

aacgttaccc tgctttaccg gcccagaatt cccggatcga cccacgcgtc cgcccaaatt 60

tgaccttaat ccccaaatcg tctgcagggt ggttaatgtc cagttgcttg ctaataagga 120

caccgatgag gtctacactc aagtcactct gcttccactt caagagtttt cgatgctaaa 180

tggggagggg aaagaggtca aggagttagg aggggaggaa gagaggaacg gaagctcatc 240

cgtcaagcgg acacctcata tgttctgtaa aaccttaaca gcgtctgaca caagcacaca 300

tggaggcttc tctgtaccta gaagagccgc tgaagattgt tttgctcctc ttgactacaa 360

acaacagagg ccatctcaag agctcattgc aaaggacctc catggagtan agtggnagtt 420

tcnccatatc catagaaggc aaccaagggn ggaatctact cacaactggg ttggngtanc 480

tttgcantca aaagaatcct cgtccnctg 509

<210> 1539
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-F5

<400> 1539

acgcgtccnc ttcagcttca tcggccgttg catttcccgg cgataagaga gagaaagagg 60

agaaagagtg agccagatct tcatcgtcgt ggttcttgtt tcttcctcga tctctcgatc 120

ttctgctttt gcttttccga ttaagatcgt agaccatggc cgatgctgat gacattcaac 180

ctattgtctg tgacaatggt actggaatgg ttaaggctgg attcgctgga gatgatgctc 240

ccagagcggt tttccccagt gttgttggtc gacctagaca tcatggtgtc atggttggga 300

tgaatcagaa agatgcgtat gttggtgatg aagcacaatc caaaagaggt atcctcacat 360

tgaaataccc tantgaacat ggngtttgtt aacaaatngg aangaaatgg aaaaagattt 420

ggnatcacac tttctacaat gagctcccgt tattgctcct gaagagcanc cg 472

<210> 1540
<211> 526
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-D2

<400> 1540

tacgccgnct tttaccgggc ccaaaattcc cganancgac ccacgcntcc gcccacgcgt 60

cncgctcgat ttgaagagag aaaattcgtt cgatttcgtt ttctcttctt cttttggatt 120

ttcccggaaa attttggaat cggtgagtct ctatcgatta ctggtcaacc atgaatatct 180

ttagatttgc tggcgatatg agtcacttga tcagtgtctt aatccttctt ctcaaaatct 240

acgcgacgaa atcttgcgct ggaatctctc tcaagactca agagctctat gcgcttgtgt 300

tcttgactcg gtacttggat ctgtttacgg attatgtatc tctgtacaac agcatcatga 360

agattgtctt cattgccagc tctttggcta tcgtttggtg tatgcgtaag catccacntg 420

tnaaggangg catacnaata aaggncctgg nnanaatttc gncaccaant angttggngt 480

taaccgtgtt ttgtaccggg gaacttatcc tgaaatgaaa aattcc 526

<210> 1541
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-D5

<400> 1541

ttcccgggtc gacccacgcg tccggcgann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnngaaaaa gatgaagtgg agaagttaat gttcaccaac ttaatactgc aaagtcgaaa 120

tctttctttc ttcttctttg ccttctttca agtgctttcc ctctctcatt ctccttcttc 180

ctcctctgtt tctttgttgt tctaaactta aaaaaagatt gaagttgcaa gtaacagagg 240

agctgtctca gatctggttc taaagcgaga gaaagagatt ttgagttgag gaaaaatgag 300

taaagaagag ttcatgaaga tccagacttg tgttcttaaa gtgaacatac actgtgatgg 360

ctgtaagcaa gaaagtcaag aaaatcctgc aagaaaatcc caaaggggtt tcaacgaaca 420

aagattgact cagagcaagg gaaagtgact gtcctctggg agcgtaaatc cttcagttcc 480

atcaan 486

<210> 1542
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-D6

<400> 1542

ctttacccgn ccagtaccgg tcaaaaattc ccgggncgac ccacgcgtcc ncccacgcgt 60

ccgcgaaatc ttatctctct aatctgttgt tacagttcgt agagtcatgg cgttagcatc 120

aaccacgttg ccgacgaagt ccggattatc tctttggtgt ccgtcttctc cgtctctcgc 180

tcgccgattt cccgctcgtt tttctccgat cggttctaga atcgcttcca gaagcctcgt 240

cactgcttcg ttcgctaacg agaatcgcga gtttgtgatt gttggtggag gaaatgctgc 300

tggttatgct gctagaactt ttgtggaaaa tggaatggct gatggtcggc tatgcattgt 360

gaccaaagag gcttacgcac cttatgagag accggctttg acaaaaagct tacttgtttc 420

caacanagga aanaanccaa ctcnnttaac aaggatttca aaacttgcct ttggaggtgg 480

tgganaaaag gcaaacacca nattgggtat aagggaga 518

<210> 1543
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-D7

<400> 1543

taccggtcaa anattcccgg ggtcgaccca cgcgtccggc cctaatcccg gctgctcgtc 60

gggggaaaat aacccggcag ggattgagca acagcgtgag tcccaaagtg agagacagtg 120

tgaatcccaa agtgagagag tgagtgtttt agcgacagag agatatggcc ggattaacga 180

gaacggccgg tgcttttgcg gtaactccac acaagatctc cgtttgcatt ctcctgcaga 240

tatacgctcc ttccgctcag atgtctcttc cttttccttt ctcttccgtt gctcagcaca 300

accgcctcgg cctctacttg ctctctctta ctaagtcttg cgatgatata tttgagccga 360

agctggaaaa gctcatcaac cagttgaggg aaattggtga agaaatngac ccttgggtaa 420

atggacaatt taactaanaa natttccccc tttggcttca ccagatgatc aatnaaattt 480

ctttaatgac atgcgag 497

<210> 1544
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-D9

<400> 1544

ggaaccggtc anagaattcc cgggncgacc cacgcgtccn aatccctaaa gtctcaatct 60

ttaagcaaat aaacaaaaaa gctcctatct tttttattcc aatggctcca acactcttga 120

caacccaatt ctcaaatcca gctgaagtaa ccgactttgt agtctacaaa ggaaatggtg 180

ttaagggttt atcagaaaca ggaatcaaag ctcttccaga acaatacatt cagccacttg 240

aagaacgact catcaacaaa ttcgtcaacg anacagatga agccattcca gttatcgata 300

tgtcgaaccc tgatgaggac agagtcgctg aagctgtttg tgatgctgct gagaaatggg 360

ggttctttca agtgatcaat catggagttc ctttgggaag ttcttgatga cgtcaaggnt 420

gcgactcaca agttcctcaa tctccctggt gaagaa 456

<210> 1545
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-E12

<400> 1545

actccgatga atggagtttt aggaatgctg aaaatgctga tggacaccga tcttgatgcg 60

aagcagatgg actatgcgca aactgctcat ggcagtggga aggatcttac atcactaata 120

aatgaggttc ttgatcaggc aaagattgaa tccggaaggc tcgagcttga aaatgtgcct 180

tttgatatgc gttttattct tgataatgtt tcatctctcc tctctggcaa ggcaaatgaa 240

aaaggaattg agttggccgt ttatgtttct agtcaagttc ctgatgttgt agtcggtgat 300

ccgagtcggt tccggcagat cattacaaac ctggttggaa actcaatcaa attcacacag 360

gaaaggggac acatatttat ctcagtgcan cttgcaga 398

<210> 1546
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-E2

<400> 1546

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gaatggtctc gcaacttctt caccaaacaa ttctccggcg ttgatatcct ctccggcgaa 120

ggtaatcttt tcatcaaggt cagtaagatc gagaaagtcg aaggcgaggc ttatgtgaat 180

gtgaggaagg ggaagattat ccctggctac gagcttaacg tctctttatc ttgggaaggt 240

gaggctaaag attccgatgg gaagacgctt ttgaaagctg atggattggt cgatatgcct 300

tatatctccg atgagaatgc tgatgaagat ccggagatta ggttttcggt gaaggatnag 360

ggaacgattg ggaagacttt tgaaggaacc cattgttaan aaaggggaaa gggaaatttt 420

tcgggaaaag gttngggttt aagttnnagg ctatggcnaa aaggaaggcc ccttttaggg 480

aatgaattgg 490

<210> 1547
<211> 519
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-E4

<400> 1547

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agaaactagg aagaggagta aataatattt gttttaaaga aatgattctc cacaaaatgg 120

cgttcttggc cgttattctc ttcttcttga taagcagcag cagcgtttgc gttcatagcc 180

gtgaaacgtt tgcttgcgat acaaaggacg cagcaacagc tacactgaga ttctgccagc 240

tttcagttcc tataccggag agagtcagag atttgatcgg acggttgaca ttggccgaga 300

aagtgagctt gttagggaac actgcggcgg cgataccacg tctaggaatc aaagggtacg 360

agtggtggtc ggaggcttta cacggcgttt caaatgtggg aaccggtact aagttccgtg 420

gggggttanc cgnaancaac aantttcccc caagtcatca ccaccgttgc ttcnttcaan 480

gccncccttgt gggaaaccaa ccggacgggt tgtgtcaaa 519

<210> 1548
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-E9

<400> 1548

nttttttacgc cgcccaggta ccggtcanag aattcccggg ncgacccacg cgtccgggat 60

cataaaagca aagcaaagga ttagttcaat tgcaattctc taattcaaag tttggatccc 120

taactgtaaa atccctaatt cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnagt 180

aaccgtccta agaatttccg gcggcgaggg gacgacggcg gcgatgaaat tgacggtaaa 240

gttgctaccc cctcgtcaaa accgacttcg actctttcct cctcgaaacc taaaacactc 300

tcagcctcgg ccccgaagaa gaaactccta agtttcgccg acgacgagga ggaggaagaa 360

gatggagctc cccgtgtgac gataaagcct aagaacggca agagaccgtg tcaaatcctc 420

ttcccgtctc ggcgtttcgg gatnttctca caagacactc ctcaaacaag ggaac 475

<210> 1549
<211> 513
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-F1

<400> 1549

tacgccgnct ttaccggcca aaattcccga atcgacccac gcgtccggtc ctttttaagc 60

tccaaaagat tgttgctttt tctcttgctt aagtttttga tttattcttc ttcttcgaaa 120

agtctgtacc tcgcaagagt ttgattgtcc ttgtgttgcg atttccatgt ttagtatctg 180

catttgatag ccttcgatgc tgcatgcaat tcccaagact ctttctgatt gctacaacgc 240

cgtgatttct ctctgccatt tccttcgatt tgatttctgg gttctcttct tctcgtctct 300

cttctgcatg tttcgccact ctaccttaga aaaaaggtta ctttcgcctc cgatttaggc 360

tcgatttgat gaattcgtcg tcgtgtggct atttatcaaa ttgagcatta agggttctga 420

attgtggggn tcaaaaatgg ttttaaccaa ccggnctggt ngtttttttgt ccgctacaaa 480

aagcctaatg gattctcaaa aggggtaatg ttg 513

<210> 1550
<211> 215
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-F2

<400> 1550

aaaattcccg anacgaccca cgcctccgca aacgtatcnt tctttctttt tttctcgtaa 60

gtgttgcctt ttattaaaac gaagtgtgcg tatcttgttt tcacgcttgc taattaaatc 120

attgtaaaca aanaataatt aaataaagtt tggtttctnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngg 215

<210> 1551
<211> 528
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-F3

<400> 1551

ttacgccgnc ctttaccggc caaaaattcc cggaatcgac ccacgnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnngaattcg agaaccagat 120

ctactaatta cctgagagaa aaaagatctg ctctgtttgt ctgaaacaga cagaagtcaa 180

caaatctttc atttgttttt tagcaaatca aagaaatggc cggagggttc gtcagtcaaa 240

cgccgggtgt tcggaactac aattacaaac tgacaccgaa agtgtttgtg acatgtttca 300

tcggtgcttt tggtggtctc atcttcggat acgatctcgg gatctcagga ggggtaacct 360

caatggagcc attcttggaa gagttcttcc cttacgtcta caagaagatg aaagaacgca 420

catgangaac gaatacnggt cnaatttgga aaantaanct tcnnaanccn ctttaatttc 480

gncccccccna agntggcggg tttgggngtc cttctctcnt tgcctcca 528

<210> 1552
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-F4

<400> 1552

ttcncggaac cgacccacgc gtccgcccac gcgtccggaa gttttatgag gaccgagaga 60

actaagttta agaaaaatgt tgaaaaaagc gtattagcag agggacaaac gctttttagg 120

gttttagatt tcctctgaga gagaattttc gaaagcttga gagagatttc caactacgtt 180

agccatggcg agcaccaaag ttcaaaagat tatgacccaa cctatcaact tgatttttag 240

gtttcttcaa agtaaagcta ggatccagat ttggctattt gagcagaaag atttgaggat 300

tgaaggaaga atcactggtt ttgacgaata catgaatcta gttttggatg aggctgaaga 360

agtgagcatc aagaagaaca ccaaggaaac caccttggaa ngggttttac ncaangggng 420

ncancataac nctgatggat gaacncnggg aaagtgatgt cngtctcaaa caactctctt 480

cgatgacctt caagct 496

<210> 1553
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-089-Q1-E1-D12

<400> 1553

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ttatctcaaa tctccttcca gaaaagcgag ggaatagtgt tgttgagagg tttgtgattt 120

ccttttgaaa aaatgatggc ttgtggctta agcaagagcc ttggcttgtc ttcctccttg 180

aagaagcaac aaggcatagt gagtatcctt ggtggcattt cgtcgaacac ttcatctgca 240

ccttcactta ggcgaacttt ctccgccgat ttgtcctcca agacttgggt ttcccaaaat 300

gggttttctc ctatgaagag aatctcttcc tctgagaagc ttcgtcctga cgaagaagaa 360

gcagaggaag aatcaagatt cggagtcgat atctgggcac aagattcaac aaaga 415

<210> 1554
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-A8

<400> 1554

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tatttttttt gcacaagcaa catttagctt ctgcaaactc cagttcatct ctcaaccctc 120

atatcgccgt gttttctcgc tctagtaccg cgagctcgga cgaaccagga agcaatccgt 180

taatctagaa gcggtgttga gaagatgacg attacatcaa atatctctgt acagaacgat 240

aacctcgttg ttcaagggaa gactatcctt accaaaatcc ctgacaacat tatcctaact 300

ccggttaccg gtaatggatt cgtttccggt tcatttatag gcgcgacgtt tgaacaaaag 360

caaagagtcc tcangtgttc cccaaacngn gttatnggag ggnncttcgg gttaatgtgc 420

ngtttccggt ttaanccaag g 441

<210> 1555
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-B1

<400> 1555

nacgacccac gcctccgcta agagtaaggc ggaggctaaa aggactaaat atatgtttac 60

accaagtgaa tctaatgatg tttcagacct acatgagaat ttgctaagcc acagggacgc 120

aatgcattcc tcctttgccg gtggtgatac tcgttattca gattatgacc ctcctaattt 180

tttggaagat atggaatcag attattctga atctgaaact gattcttctg atatggagga 240

ggatactgat gatgacattc ccttgctgtc aggagctggg cgtcattccg agcgacgcaa 300

tacttttagt agacatacgt caggagaaga tgaaagtaca agcantgagg aagatnatta 360

tgagtcatcc atttctggnc nactcctccc aacctttatt ccnaaatccc taatatngag 420

gctaantacg ggtttccaac tggcaagcnc aaggggaaaa agaaacttcc gggactcttc 480

caaggaaag 489

<210> 1556
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-B11

<400> 1556

gccgcccaga naccggtcaa ganntcccgg gncgacccac gcgtccggag aagttagatc 60

ttcttcttcg tgagctatgc catttacgat gaagatccaa ccgattgata tcgattcttc 120

accaaccgta gctagagctg aatcaggaaa caaaccggtg ctcaaatctc gtctcaaacg 180

tttgtttgat cggccgttta caaacgtatt gagaaactca acaactacaa ccaccgagaa 240

accattcgtt gtcaccggtg gtgaagttca atgcggcgga gtagtgacgg agttcgagcc 300

gagttctgtt tgcttagcga agatggtaca gaacttcatt gaagaaaaca acgagaaaca 360

agctaaatgt ggacgtaatc gttgtaattg ctttaacggc aacaacgatg gttcttccga 420

tgatgaatca gatnt 435

<210> 1557
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-B2

<400> 1557

ttacgccgnc ctttaccggg ccaaaaattc ccggaancga cccacgcctc cgcgggacgc 60

gtgagggaag aaaacttcgt ctctcttctc tgcttcgccc tctcatttcc tgtgagataa 120

aggcggagtc tctctccaag ttattttgct catccatcga ttcttagagt tcaaaatggt 180

tgatcaagtt cagcaaccca ctattgcgca gaaagctgcc gggcaagttc atgcgttcaa 240

gtgtttccaa ggacgttcaa ttgggttacc agaggccttc tatgtatcaa agacatgcaa 300

cctacggaaa ctactccaat gcggcatttc aatttcctcc gaaatcccgg atnttggaaa 360

aatggcttcc ccgtgtttgt ccaaaccnag gaaaaaaggg gtncacnaac tttgcccttg 420

atttccaaag gggnggggnt tccgngngng ttcccaaaaa gggggggggc ccaaatggaa 480

ggtnttaacc tttt 494

<210> 1558
<211> 508
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-B3

<400> 1558

ttaccggncc aaaaattccc gganccgacc cacgcntccg agctattccc nctagcctaa 60

caagagagag cccttatctg acccatccaa tcttcaacat gtaccacacg ggagcatgag 120

ttgcttaggt acatccacaa gttacaaaat aaagatctat cattgtgcca cagcatgatt 180

ccacttggat cttgtacgat gaaattgaat gccaccactg aaatgatgcc agtcacatgg 240

ccaagtttca ccaacatgca ccctttttgct cctgttgaac aagcccaagg ttatcaggaa 300

atgtttacga atttgggtga gctcttatgt acgatcactg gatttgactc tttctcattg 360

caacctaatg ccggtgctgc tggcgaagta cgccgggctc aagggtatcc cgttcataac 420

caaatgtcaa naggcgatca tcacagaaat gtgtgcatca tacctgtttc tgcacacggg 480

acaaaccctg ctagtgctgc catgtgcg 508

<210> 1559
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-B5

<400> 1559

cctttacgcc gccaaatacc ggtcnagcat tcccgggtcg acncacgcgt ccgagtgaag 60

taacttcaaa ggccctaaac tcacttcctt acgattcacc cggtcaagcc tttgtggttt 120

ttgagaagcc anctggggtc cctgctgttg gaaagttctc caacacattg actttcgttg 180

ttaangaggt tgacccaagc acaggtgaag cagaagatga tggagtanaa gatgagtacc 240

agctagagga tcttgaggtt gtagctggag attacatggt gaaagtgggt gtctccaatt 300

tcaggaatgc gtgggaaagc atggatgaag aagatgagcg tgtagacgaa tatggccttg 360

gccaaagaga gagtttggga gaagctgtaa aggctgtcat ggatcttcct ggcatgcaaa 420

ccttttaang ggaacgggna acaattccgc ccaatgcaag gtccacacac gtgtcnattg 480

tcaaggtgtg tacatangca acgtgaaagt gttat 515

<210> 1560
<211> 513
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-B6

<400> 1560

ccttctacgc cgnccagtac cggtcaaaaa ttcccgggnc gacccacgcg tccncgatta 60

tgttcggata ctcaccagtc cagctcccta tgctagataa ggacggttca ggagggattg 120

tcgcactttc tcaatctcca tttgctggaa gagttccatc aaactcagct actgcaaaag 180

gcgaaggcaa acaacctgtt gcagaagaag gttcatccga ggatgcatca gaacgaccaa 240

cgggagacaa cagcaacctc aataccgctt tctctttcga cttttctgcc ataaaacctg 300

gaatggcagc agatgtgaan tttggaggat ccggggcacg tcccaactta ccgtgggtct 360

caaccactgg gttcaaggcc cacacggacg gacaatccca ggtgtcacat accggttaaa 420

acncaaacca nntttaaaan cctnngccct ttccaanggg cccncaaatt tcaccggaag 480

gatttttac ggcaccaagc cnaaggatta ctt 513

<210> 1561
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-B9

<400> 1561

ctacatatat atanacgcac atacgtacac agttcgaagg ttttagctgc gagtatgagg 60

aaggaactgt gtagaaactt tcagcgtggc agttgtaggt atggggaaaa ctgtagattt 120

cttcatccac aacaagctaa gccaaataat ccctttggct ttggtacnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnntagt tcgaaccctt ttggatttgg tgtacaaagt 240

ggtggttcca gcagaccgaa tcagttccaa gaatacttgg tcacgaacgg cttctacacc 300

tactggtggt ggtgctgctg cttctacaca gcagactggg taaacagacg cagccggcag 360

atcataaatg cacagatcct gctgccgtgt aagcgggtaa tgcaaagacn nattttaaga 420

atganagacc catttgga 438

<210> 1562
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-C1

<400> 1562

ccggnccaga attcccggaa ncgacccacg cctccgatta caaataagct cctatcttct 60

ttctttcttt tagagatctt gtaatctcct cttagttaat cttctattgt aaaactaaga 120

tcaaaagtct aaatggagat taacggggca cacaagagca acggaggagg agtggacgct 180

atgttatgcg gcggagacat caagacaaag aacatggtga tcaacgcgga ggatcctctc 240

aactggggag ctgcagcgga gcaaatgaaa ggtagccatt tggatgaagt gaagagaatg 300

gttgctgagt ttaggaagcc agttgtgaat cttggtggtg agactctgac cattggacaa 360

gtggctgcga tctcaactat tgggtaacag tgttaaagtg gagcctatcn ggnnacagct 420

aaanccggtg tgaatgctan tagtgattgg gttatggaga gtatgaacaa aggcactgat 480

agttatggtg ttactactgg gt 502

<210> 1563
<211> 514

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-C3

<400> 1563

acgttacgcc gcctttancg gccaaaattc ncggaacgac ccacgcgtcc gcgcgtccat 60

ttttttttct caattcggct tcaaaaattc gttagataga gaagaatcta aaagtctctc 120

tcggtcatcg gaatatcttc ttctcaggaa ttcgacgaga ctattcgaaa tcggaaatcg 180

cgctttgaat ctgaaactca gaatttagag gacgcttact ccaaagaatc tagggtgtta 240

actttctaag aaaaggagtt tgttaaaaca atgaagtata aagatgagaa gtacgagaaa 300

gctgagaagg gttcaaggat tttgcccaag acagttttac tgattcttct ttgtggactt 360

tcgttctatc ttggagggtt gtattgtggg aagaacataa ttgaagttag tgatgttgca 420

aaagctgnat cctcctncct taaatgttga tgactcnctt caagtcaaat cngttctttc 480

tcggaatgta ncagtgacta ccaagattac actc 514

<210> 1564
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-C4

<400> 1564

tttaccggcc aaaaattccc ggaatcgacc cacgcntccg cttgttcgtn atctctcttc 60

ctccgggaaa aagatgtcgg ccggtaacgg gaaatgctac taacggtgac ggagggttta 120

gtttccctaa aggaccggtg atgccgaaga taacgaccgg agcagcaaag agaggtagcg 180

gagtctgcca cgacgatagt ggtccgacgg tgaatgccac aaccatcgat gagcttcatt 240

cgttacagaa gaaacgttct gctcctacca caccgatcaa ccaaaacgcc gccgctgctt 300

ttgccgccgt ctccgaggag gagcgtcaga agattcagct tcaatctatc agtgcatcgt 360

tagcatcgtt aacgagagag tcaggaccaa aggtggtgan aagaaattcg gcngagaaaa 420

aaaaacgaan ggttaaanta anccnggggt tacnctcaan gggcaaaaat cattccaanc 480

ttttt 485

<210> 1565
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-C5

<400> 1565

acgcgtccgg tttcaggtca cctgttgcac aatctctgct cagccctaaa agcttactcc 60

tttcaacttt ctggaggcct tctcgtagcc tagcgtcata gatggatttg atggagaaga 120

acttggagtt agtggagatt cagaaactag aaggccacac cgatcgtgtt tggagcgtag 180

cttggaaccc cgtttcttct cacgccgacg gtgtttcacc gattcttgct tcttgcagtg 240

gcgataacac tgttcgaatc tgggaacaaa gctctctctc tcgctcctgg acttgcaaga 300

cagttttgga agagacgcat acaagaactg tgaggtcgtg cgcttggtca ccctcaggac 360

agttattggc cactgcaaat tttgaatggt acaacgggca tttgggaana attacggttc 420

tgagtttgag tgtatttcca ctttggaggg acatgaaaac gaagtca 467

<210> 1566
<211> 523
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-C7

<400> 1566

agcctttacg ccgnccagta ccggtcaann attcccgggn cgacccacgc gtccgcggac 60

gcgtgggaag tcctctcttt tccgaaggat ctgactttat cccggaattc tgacgccgaa 120

gcttaaatgg aaaaagaaga tgagctccag aagttaaacg gtcaagtttc agctccacga 180

gacggagatg tagaagatga cgatccacta gtgttgagtt ctcaagcttt ggcggcgctt 240

cgggaatttc tagcagacca gaacaagact gttgcgaagc acgccaccgg cgtcttccgt 300

cgccggagga gaagaatccg ataaagtgga gctggttacg gaggattgga gactcagcca 360

gttctggtac gaacctgaaa ctgcagagac tgtagcagat gaagtgggca ctccctctca 420

aaagaantcc aaagcctgca aaagtccctt gcaattgctt gccctaactc cccnacgttt 480

atctcaagga aaagagatcc taagtcttca ggtgcaattg ctg 523

<210> 1567
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-A6

<400> 1567

acgcgtccna aaaaaaaaga gaaactcgaa aacgagaaaa atggcgagct ccgatgctct 60

cttgccaatc tccgccagag aagaagaacc attatgtcct tacacgagat taccaatggc 120

cgacccgaat caagaaaccc atggcccccg gagaagaaga ccctttaaag gtctcctcgc 180

cgtctcattt ggtctcttgt tcatcgcctt ttacgtcgct ctcatcgcca cacacgacgg 240

atctagatcc aacgacgaag ggatcgatga aacagagacg ataacgtcac gtgcacgtct 300

tgctggtgtg tcggagaaac gtaacgatgg gttatggaaa ctttccggtg atcggaacac 360

gccggcgttt tgaatgggac aatantaagt tgncctggga aacnancggg gtttcatttt 420

cagcctgagc aaaattggnt gaacgatcct aacggtccat tgttctacaa ggg 473

<210> 1568
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-H8

<400> 1568

acgcgtccgg ttttttttt ttgtttcctt ctttgatctt tctttcagaa gaaaagattg 60

atttaaattt gagaaaccaa gcgactgttt gtttactttc tttattatta cagatttaca 120

ggtacagaca aagttgtatg taagtgtgat tagaacagtg gatgctctta tcacgggtcc 180

acttgctctc taaaaagaat attgaagctc ataattacat ctttagagac taaaacaatc 240

ttaatcattc accttcacca agtacttgtg tccagaagaa aaagaaggaa aaaaagaaca 300

caccattcaa gaaagagaga agcttcttgt gataagaaat ttcacaagat tggggtttta 360

acattccaag ggagangact ttgtcctgtc ccctattcat cttcaagacc cttatgagtt 420

tcgggtcctg ag 432

<210> 1569
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-H9

<400> 1569

acgcgtccga gtactccaag tttcatggtc attcccctgc tgttgtcact ggaaagccca 60

ttgatcttgg tggttcatta ggtagggaag ctgccacagg tcgtggtgta gtatttgcca 120

ccgaagctct tcttgctgag tacgggaaat cgattcaggg tttgacattt gttattcaag 180

gttttgggaa tgttggaaca tgggctgcga agctgatcca cgagaaaggc ggtaaagtgg 240

ttgcagtaag cgacattact ggtgcaatca ggaaccctga aggtatcgac atcaacgctc 300

tcataaaaca caaggacgca actgggaagt ctcaatgatt tcaatggtgg agacgctatg 360

aattcagatg aaattgctca ttcatgagtg tgatgttctc aatccatgcc gcctccttgg 420

tgggtgtcct tgaacaangg aaaatgctgg gagaanttga aggcaaaa 468

<210> 1570
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-A10

<400> 1570

tatcatcacc atcagggctg aaggagaggg tggcttgcgc catggggcac ctgcaagagg 60

tgatgggaga gagggagttg ctgatccagc tgtgggtgcc tgttgagaca aggagcggcc 120

gagtgctgag cacggaggag cagccttact ctatcaacac cttctcccag agccagagcc 180

tggccctcta ccgagacgcc tcagctggct acagcttcgc agcagaagtt gggtcggagc 240

agctggtggg gctgcctggg cgtgtgttcc tgaggagaat gcctgagtgg accccagacg 300

ttcggttttt caggaaggag gagtaccctc gcattggata cgcccgcagg taccaaggtt 360

cgaagccacc ctcgccctcc cactcttcca anggaacgtc cgggaaactg cttngcgttg 420

<210> 1571
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-A3

<400> 1571

aaacgtttac gccngccctn taccgggcca aaaattcgtc canncattcc cacggtctcc 60

gcaaacatnn tngctctaat gtgcctaaag ctgaaatgac tttggatgaa actttggaag 120

cacttggtct caatgctaac tctaagcaag ataaggttca ggagacaaaa ccaaatgctg 180

attcttccaa aaaggcttct tcacgatttg tgttggaaat anattccaag tatctgaatc 240

ttgagaacga nttgaggaga acgtatggtt caaaggctat gcgatcattt gagagtgaga 300

gtggctctca aggtggtaag tagctctaga cgangggga aggcgtggag tccatcatat 360

cacaaaanac ggttctggta tctccaaaag agaattggtc cccatgggat aaatnnttct 420

caatggagtt tctaaagact aaaagatggg aacaactact tcagatataa ccaatcatcc 480

tcaaaatgat caaggctcaa gaagaac 507

<210> 1572
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-A6

<400> 1572

acgcgtccgn gccggaacag cattctccgg tagcttcaac gaagagtttg acttaacttg 60

gggtgaacac agaggcaaaa tcttcagtgg aggaaaaatg ttgtcactct cactagaccg 120

ggtttccggg tcgggtttta aatccaagaa agaatatttg ttcggaagaa tcgacatgca 180

gcttaaactc gtcgccggta actccgctgg aaccgtcact gcctactact tgtcatcgga 240

aggaccaaca cacgacgaga tanactttga gtttcttggt aatgaaacag ggaagcctta 300

tgttcttcac actaatgtat ttgctcaagg caaaggaaac anagaacaac aagttttatc 360

tctggtttga tccaaccaag aacttccaca cttattcnct tgtctggaga ccacaacaca 420

tcatatttat ggtagataat gt 442

<210> 1573
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-A7

<400> 1573

aaccgacgnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnngatt aaacctctaa aatcagggag ttttttttctt ctggtttcgg 120

attctcagaa aaattagcaa gtctttgtct tttgctgctg gttgcatagc ccccattgaa 180

gctttttttcc tctcaatctt aatgttctca agagggcttc tgcagcaagc gaaatgggac 240

aaagaaatag gaatgttgat ttagaaatgg agcaagcagc aatctcaagc ttctctccaa 300

gcagagcctt gcatcctttt angcagcttt ccgcaacaac cgggataata ataatatgcc 360

tgctatggtt gcacacgttc cnaatttaga acctcattct cttcaagatc tttctctaac 420

ctggggagt 429

<210> 1574
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-A8

<400> 1574

gggcggacgc gtgggctgaa agggaaacct angtttgctg atttcaatct catgcctcct 60

gattggggtg ctaattttgc tccttgggtt tctactatgg ntcaagctta tccttgtctt 120

gagaaagttg atttgaanag gatgtttgtt actgatgatg atttagctct tcttgctgac 180

tcttttcctg ggtttaaaga gcttatcttg gtttgttgtg aaggttttgg tactaagtgg 240

tatctctatt gttgccaaca agtgcagaaa gctgaaagtg cttgatttga ttgagtctga 300

agtcacggat gatgaaagtg gattggatct cttgtntccc tgaagatgta actttgtttg 360

ggagtcctta agcttttgac tgtgtggaag ctcctaatca antttaaagg cgcc 414

<210> 1575
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-B1

<400> 1575

aacgttagca gcctttaccg gntcagtann ggtcacncat tccagggtcc aggcaanaat 60

ggaanaagca nagcataatg aagctgagga agcacaaggg attgaagcta gggaagcaaa 120

acagattgaa gctggggaaa cttcaagatc atctangaaa ttgattactt ttgagccaaa 180

gttggttata aacaaaggaa tatcggttct tggattcgtt ctgcggttat ttgctgtttt 240

tggaactata ggaagcgcgc ttgccatggg aacaacacat gaatctgttg tctctttgag 300

tcagctcgta cttctgaaag ttaaatacag cgacttacca acgctcatgt aaaatattca 360

gtgatcagta tatcgatgaa tcatgaattt gattgtgtat atataataat actgctctgt 420

tttataagtt tttcgtggtt gcaaacgcca tttctggtgg gatatttggt tctttctcca 480

acctgtgagt 490

<210> 1576
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-088-Q1-E1-B10

<400> 1576

acgcgtccgc tctactcaag gaactccaca aaaattaaaa tctcacaact ccaacatctt 60

cttataacac gtcttgattt atctttaaga accaaacaaa aaaccaaaac ctagaagaga 120

aaatgggaga tcaaggagta caacaaatgc aacagcctat tgttgtgtat ccaaacgctt 180

acaataaaca gtatccagac ccttctacaa aaccttcttc ttcctctggc tcaagcggaa 240

actttgggac ggtcttcata gtcctagccg tgatctttgt cttgtcggct cttgcttgtg 300

tctttggaag gctatgtaac cgtgaaagcc gcgcggctaa gcagcaacat agcaagcatc 360

cgaagcatga gaaagcttct tccaagaaga gccgttgaga atcggccttg gagcgt 416

<210> 1577
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-B11

<400> 1577

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gcagagccca caggcgcccg ttctatgtct tttgttggca cacacgagta cttagctcca 120

gagatcatca aaggtgaagg acatggaagt gcagttgatt ggtggacctt tgggatcttt 180

ctttatgaac tattgtttgg taaaacaccg tttaaagggt caggaaatcg agcaacgctc 240

ttcaacgtgg ttggtcagcc tcttagattc cctgaatctc cggttgttag cttcgcagct 300

agggatttga taaggagttt gcttgtgaag gagccacaac atagattagc ttataagcgt 360

ggagcaacag agataaagca acatcctttc tttgaaggag tgaattgggc tctggttcca 420

agttgccagt ccaacgggag aatcccaaaa ccgggttgtc ttgaagcctt tgaanc 476

<210> 1578
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-B12

<400> 1578

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gaactgcttt gcttaaagag tttctttctg attctgaacg ttttggtcag cttaaaactg 120

tacagagttg tttctcattt gctggagatg aagattttct taaaaacgat atccgtgtga 180

aacctggtct tgacgggctt ggtgcgctag gagatgcggg gtggtacgcg atcagagcaa 240

ctcttttagc taataacttt gagcttccga aaactgtgac tgctttcccc ggtgctgtnt 300

tgaatgaagc aggagtgata ctttcctgtg gagcatcttt gagttgggaa gatggacgaa 360

ctgcaactat atattgttca ttcttggcta acttaacaat ggagataact gcc 413

<210> 1579

<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-B2

<400> 1579

ngttacgcct gcctgtaccg ggtccanaat tcccggatcg acccacgcgt ccgatttcct 60

ctctgatcgc cagtgattta ngcttctgca acgaagagat ggctttagtc ggaggtgttg 120

gcgatgtccc tgctaatcag aacagtggtg aggttgagag cctcgctcgt ttcgctgtcg 180

atgaacacaa caagaaagag aatgcacttc ttgagtttgc nagagttgtg aaggcgaaag 240

aacaagttgt agccggaaca ctgcatcacc tgactctgga gattctcgag gcaggacaga 300

agaagcttta cgaagccaaa gtgtgggtca agccgtgggt tgaactttaa aagagttaca 360

aggagttcaa agcctgccag tgatgcccct gctatcaact tcctcccgat cttggctgca 420

aagcaangtg aacatgaatc tggatgggan gggaaattcc ccggagatga ttcaagaagt 480

gaaancatgt ttgctgaacc angctg 506

<210> 1580
<211> 519
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-G9

<400> 1580

aactgtttcn cctggcccgt accaagtccg gaaattcccg ggtcgaccca cgcgtccgcg 60

gacgcgtggg ttttttttctc tgatcttcga gttctgataa ttgctctttt ttctctggct 120

ttgttatcga taatttctct ggattttctt tctggggtga atttttgcgc agagatgggt 180

tcggcgaaca acgagtacga gtttctgagt gagattgggc tgacttctca caacttggga 240

tcttacgttg ctggcaaatg gcaagccaac ggacctcttg tttcaactct caatcctgct 300

aacaatcagc caattgctca agttgtggaa gcttctctag aggattacga gcaaggtttg 360

aaagcttgcg aggaagcagc taaaatatgg atgcaagtta cggctcctaa gagaaggtga 420

taacctcaag acaagattgg gggatgcact aagattcaaa ccttgactaa ccttgggccg 480

tccntccttc cccttggaaa tgggaaaaga ttcctngct 519

<210> 1581
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-F12

<400> 1581

aactgtttcg cctggcccgt acaagtccgg anattcccgg gtcgacccac gcgtccgcga 60

agcatccttc aaggaagcat taaggaggaa tgtggcagca aatcccgggg tgtgttccat 120

atcttctagc ttggattccg atactgcgga aatctccacg acgtttaaga tcgagctagg 180

ggatagtaac gccgttgaga gatgcagcgt attgcaacgc ttccatagtt tcgagaagtg 240

gatgtgggat aatatgctgc atcctagtgc tttatctgca tttaagtatg gtgctaagca 300

aagcagtccg ctttttcgca tatgcagaat ctgtgcggaa ctacactttg tcggagatat 360

ttgctgtcct agttgcggtc agatgcatgc tggtccagat gttggtgagt tgtgttttgc 420

tgagcaagtg gctcaactcg ggggataaat ttgagaaaga nggagatact gggcttttat 480

ccttgccgta nctcaatcct tgtcctccct c 511

<210> 1582
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-F3

<400> 1582

cttntacgcc gctcggtacn gctcaagaat tccnnggncg acccacgcgt ccgcactcgc 60

agaatatttg ttctcatctg attcctccga tctgccatgt ctcggctttt ctaacgctaa 120

gaagtttcac agacgcggcg aaggagaggg aggaaggaga tagatctctt tttccgtcgc 180

gataataata aaaaataaac gtgtctagag gctgttactg aagagttgat tcatacggag 240

agaggataga aatggcagat gggatatcga gcttttgggg tcctgtgact tctactatag 300

agtgttgtga gatgaactac gcctactcat cctacattgc tgagttctac aacactatat 360

ccaatgtccc tggaatccta ttggctctca ttggtcttgt caatgcatta aggcaacggt 420

ttgagaagag gtttagcatt cttcacattt cgaatatgat acttgctatc ggca 474

<210> 1583
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-F5

<400> 1583

aggaaccggt canagaattc ccgggccgac ccacgcgtca ncgttactct cgtgtttatc 60

tctccgacgt aaccatggat agcgatactc tctcaggatt attggaaaac gtcgccaaaa 120

aattccccga tcgccgagct ctctccgttt ctggaaaatt caatctcact cacgcgcgtc 180

ttcacgatct aatcgaacgc gccgcttcac gccttgtctc cgacgctgga atcaaacccg 240

gcgatgtcgt tgctctcacc ttccctaaca ccgtcgagtt tgttataatg tttttagcgg 300

tgataagagc tagagccacg gcggcgccgt tgaacgcagc gtacacggcg gaggaatttg 360

agttttacct ctccgattca gattcaaagc tattgttaac ctctaaagaa ggaaacgcac 420

cggctcaaga agcagcttca aagctgaaaa tctctca 457

<210> 1584
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-F6

<400> 1584

tcacgcgncc agataacggt cntagncctc ccgggccgac ccacgcgtca actcggatct 60

ccttctcttc tctctctcgc taagaactat agaagatggg attgttctcc cacaagatct 120

ccagagatga tctgaaacca ggcgatcaca tggattcntg gcgtaacgct tatatctact 180

ctcatcacgg agtctacgta ggagatgaga aagtcattca tttcactcgt ggaggtggtc 240

tagaattcgg aacaggaaca gttttggaca agatcatcga tatttcaata ccaaatcatg 300

gaanaagaga caaaaagtgt attgattgtg gagatcantc caatctcggt ggtgtaatct 360

cntcttgtct tgattgtttt ctcgccngag ggaaatctag atcncttcga atacagtggc 420

ctctccgtnt agcnttctag ccaagacgag ggtggna 457

<210> 1585
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-087-Q1-E1-F7

<400> 1585

acgcgtccgt taaaaaataa ttaaacatgg aacagtagga tgctaacatg actgacgaga 60

ctgtagctgc tcaaaagaaa gtctaagcta aattagaacc aaagggcact cctgaggatg 120

ctgaaaacct aaaaaattaa ggcaatgagg aatttaagaa aggaaactac gcagctgcta 180

tttaacacta ttccgatgca ttggatattc aaagaagtga agctatcctc actaacagag 240

ctgccgctta tatcagctta aaaaaatata aagaagcatt attcgactgt gagcaagcta 300

ttggtctcaa ccgatagttc ctgaaatctt attaaagagc ctataaatgt tacatgtagt 360

tgggtgactt gcctaaggcc aaggaagtct ctgaagttgc taaagacctt ggagatgctg 420

aagct 425

<210> 1586
<211> 529
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-F9

<400> 1586

aactgtntcc cctggcccta ccaatccgga nattcccggg tcgacccacg cgtccgcaga 60

atcatcccaa ttcaagcaaa gatccgagaa atcttcatgc ctgcactaag ttccacgatg 120

accgaaggca aaatcgtctc ttgggttaaa tcagaaggcg ataaactcaa caaaggagag 180

agtgttgttg ttgttgaatc tgataaagct gatatggatg ttgagacttt ctatgatggt 240

tatctagctg caatcatggt tgaagaaggt ggtgttgctc ctgttggttc tgctattgct 300

ttgttagctg aaactgaaga tgagattgct gatgctaaag ctaaagcttc tggtggtggt 360

ggtggtggtg attctaaggc tcctccggct tctcctccca cggctgcagt ttgaaagcac 420

ctgtgaagtg ttgaagaaag naagggttgc agcttgctcc cgggttgtcc aattaanggc 480

ggttggccgg cgttctgccg gtgcaatccc gggcttctga aagggaagg 529

<210> 1587
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-G10

<400> 1587

acgcgtccgc ttagatcgat ttctaaagnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnacccatgg ctaatcgtta tgatccaaat 120

cctttcgctg aggaagaaga agtcaatcct ttcgctaatg ctagaggagt tccacctgcg 180

tcgaattcga gactttcgcc tttgcctcca gagcctgttg gtttcgatta tggtcgaacc 240

gtagacattc ctcttgacag agctggtaca caggatttga agaagaaaga gaaggaactc 300

caagccaaag aagctgagct aaaacgacga gagcaggacc tcaaacggaa agaagatgct 360

gctgcacgag ctgggaatcg ttatttgaag tgaaaaactg gncgcctttc ttccacttat 420

ccaccatgga catcgcaaac gaaaattccg gttcatc 457

<210> 1588
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-G12

<400> 1588

aaactgtttc gcctggccgt acaaagtccg gaaattcccg ggtcgaccca cgcgtccgta 60

ttcggaaagt gaggaagata cactgaagca aaagagcaag tcatggcggc gacatcttcc 120

tctgcttttc tccttaatcc gttgacttct cgccaccgtc ctttcaaata ctcgccagag 180

ctctcttctc tctccttatc ctctcgaaag gctgctgctt tcgatgtttc ctcagctgct 240

ttcacgctca agagacagag ccggagtgat gttgtgtgca aggctgtatc tatcaagcca 300

gaagctggtg ttgaagggct caatatcgcc gataacgccg ctcagcttat tgggaaaact 360

ccgatggtgt acttgaacaa tgtagtcaag gggctgtgtt gcaagtgttg ctgctaagct 420

tgagatnatg gaaccatgtt gcagtgtcaa ggataagatt gggtacagta tgattactgg 480

atgctgaaga gaaaaggact tataa 505

<210> 1589
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-G2

<400> 1589

gccgccagta cgnctcaaga attccagggn cgacccacgc gtccgcccac gcgtccgcaa 60

aaattagggc aaaattagnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnncaa ggaaaattta gggttttcga tgaaggaacc 180

tttgcagaag aagaaggtgg ttgttcgtca cttgccgcct tctctttcac agtccgatct 240

cttatctcaa attgatcctc gtttcgctga tcgttacaat tgggtttcgt ttcgtcctgg 300

gaagtccagc tataaaaatc agaagtattc acgggcctat gtaagtttca aggcaccaag 360

aagatgttta tgaagttcgc tgcatttttc aacggggcat gtgtttgtta atgaaaangg 420

tgctcagttt aangctatag ttgaatatgc acccttcctc agcgtgttcc cga 473

<210> 1590
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-G3

<400> 1590

naacttctac ccgccggtac ggctcaagaa ttccanggnc gacccacgcg tccnaaaaaa 60

aacaaacccg tgacgccatt aacgaaggtc gagcttcctt gacaccacac aatgcattct 120

cctcgtaagc tatttcacgc gcggtcatca ctcgccacgc gccgatcaac ggntcttgtc 180

gtattaactt ccctagctat tggaatcgcc ggtttcacat ttggactcgc cgtaattctt 240

ataccgggtc tccgattaac cggtcgtaat tgcttgacga acactcctcc gaagacggtg 300

cgagtcgttt gggacgtcgc cggaaatagt aatggcgttg ttagtggcga aaagaagagg 360

cataaggtta tgggattcgt tggtattcaa accggatttg gatctgctgg ccggagacga 420

tcacttaaga aagacatgga tgccgtcaga ttcaagaagg tcttcgacgt ttggaaa 477

<210> 1591
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-G4

<400> 1591

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cctcggctac tcttttctct tcttgcctct cgtctccgcc gctgattcag ctgccgccga 120

caaaggaata tggaagaaaa agatgtgtat acgcaagatg gaactgttga tattcacaaa 180

aatcctgcaa acaaggagaa aaccggaaat tggaaagctt gccgcttcat tctcggaaat 240

gagtgctgtg aaagattggc ctactatggc atgggcacta accttgtgaa ttatcttgag 300

agccgtctga atcaaggcaa tgctacggct gcaaataacg tcacgaaatt ggtctggaac 360

atgttatata actcctttga attgggagcc tttatagctg atgcttaact tggacgatat 420

tgggaccnat tgcaactttt gttttcaatc tatgtctccg gtatgactcc tttgacaatt 480

atca 484

<210> 1592
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-G6

<400> 1592

ggaaccggtc aangaattcc cgggccgacc cacgcgtcnn caaattataa acccattttc 60

cttcataaat ttctaaaata aaacccctta aactttcatt cacatcatcc aacccccaat 120

gggtcgaatc ttgaaccgta ccgtgttaat gactcttcta gtcgtaacaa tggccggaac 180

agcattctcc ggtagcttca acgaagagtt tgacttaact tggggtgaac acagaggcaa 240

aatcttcagt ggaggaaaaa tgttgtcact ctcactagac cgggtttccg ggtcgggttt 300

taaatccaag aaagaatatt tgttcggaag aatcgacatg cagcttaaac tcgtcgccgg 360

taactccgct ggaaccgtca ctgcctacta cttgtcatcg gaaggaccaa cacacgacga 420

gatagacttt gaagtttctt gggtaatgaa acagggaag 459

<210> 1593
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-G7

<400> 1593

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tccgcaaaaa ccaaacaaac aaacaacaaa ccagaagttt tatttttgtt aaagagtaac 120

caaaaaaaaa aaacagagta ccttcttctt cacacacata aaaagagacg gtaccaaaaa 180

ataaaaacag agcaaaccac aaaaatgggg aagcatttat tccgatcatc tcctccaccg 240

gagaaaccaa cagctcatct ctctctcgcg gaatcagctg ttcaagaatg tatgagcaac 300

atcaacaccg tcatatcaaa atggacttct ccggctgctt cttcctccga cgacttcctc 360

ttctccacca acagtcgtcg tgaagcagag gagtttgtta cagccgttag acatctacaa 420

agcacgatgc atcgtttggt ttccgttaac ccttcctcgg 460

<210> 1594
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-F11

<400> 1594

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agagaaatca agaatggatt tgcagagagg ctttgtgttc ttgtctttgg ttctatcttt 120

tatgataatc gaaacgacgg cgtatcgaga gagacagctg ctgctgctgc aaccaccgca 180

agaaacggcg atagataccg caaacgcggt ggtgacggtt caagatcgag gtttgaagac 240

gcggcgaccg gagcataaga acgcatacgc aacgatgatg tacatgggga cgccaagaga 300

ctacgagttc tacgttgcga cacgtgtttt gatcagatcg ttgagaagtc ttcacgtgga 360

agctgatctc gtcgtcatcg cttctctcga cgttcctctc cgatgggttc aaacccttgg 420

aagaagaaga tggagctaaa agtggtgaag agtttgaaaa atgttggata atccatacaa 480

ggagacagac caaacttcaa caagtngatt caaagct 517

<210> 1595
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-C9

<400> 1595

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tcttcttcgt tgttatcact tctttagtag ctctcaacga gatttctcca aaatcagcga 120

tgcctttaac gagatcaaag agtcttccgg cgacggagaa cggtggatcc gatcgggaga 180

cactccaatc aggaagatca gtggctggga ttctctataa atggactaat tacggaaaag 240

gatggagatc tagatggttc ctcctccgcg acggaatctt atcgtattcc aagatccgaa 300

gaccggagaa tgtcaatctc ttatctcctt ccgatgatct gaggttaatc ggagatattt 360

ccaccgatcg tctcttgaga atgangagtt gtagtggccg tagtcctcgg aaacatcaca 420

anaacattgg gcattggtca cctcaa 446

<210> 1596
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-D1

<400> 1596

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tccatggcgt cacaggtaag gtcagtaaaa gttggcaatc tctcttcagg agcaactgag 120

catgatatta aagagttttt ctctttctct ggtgaagttg aaagcatcga tatccaaagt 180

aacgagcata gtgcttatgt cacatttaaa gaaactcaag gagcagagac tgctgtgctc 240

ttatctggag cgagtattgc cgatcaatca gtcatcattg agttggctcc caactacagt 300

ccaccagcag cccctcatgc tgaaacacag agcagcggtg cagaatctgt tgtccaagaa 360

ggcaagaaga tgttgtgagc agcatgttag caaagggttt cattcttggg aaagatgctg 420

tcggcaaagc aaaagctttt gatgagaaac atggtttcac ct 462

<210> 1597
<211> 516
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-D12

<400> 1597

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atggagtcgc agaagaagat agctcatgag atcggaggta tgaagaacga tgctcttcgc 120

tttggtcttc acggcgttaa gagcgatatc cttagatctc atcctctcga aacggcttac 180

gaatctggga agcaatcaca agaagaaatg aagaggagag tgatcacgca tacttatgga 240

gctgctcttc ctttgaagat ggatcttgat agacaaatcc tttctcggtt tcagagacct 300

cctggaccaa ttccttcatc aatgcttggc cttgaagtct acacaggagc tctaagataa 360

ttttggtttt gaggattact tgaatgatcc tcgcgaatcc gagacgctga aaccaataga 420

ctttcaacac gggatgggaa agtttcggct ttggtcctcc tccaaaaggg cccaagcctt 480

cccaaagttt catggttant caaccaacaa tcaaaa 516

<210> 1598
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-D4

<400> 1598

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caaaatctgg gtttcgatca attttaggtc ttttgattcc tacttgtcta atcgtcttgc 120

aatttcaaag atgacagttg ttggagatgt tgctccaatt ccaaggagga acagttctac 180

ttgctctaat gatatcgctg ctccgttatt accagagtgt catggagatg aagttgctca 240

tgatgaattc aatggagctt cttttagtgg cgcggttttt aacctcgcca cgactataat 300

tggtgctggt atcatggctt tgcctgctac aatgaagatt cttggacttg gacttggaat 360

cacgatgatt gttgttatgg ctttcttgac tgatgcgtcg attgagttct tgcttaggtt 420

taagtaaagc tgggaagaat cgatcttacg gtggtttaat gggtggt 467

<210> 1599
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-D5

<400> 1599

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gcaagttaaa tggtttttct catggtgtgg gagatagaga ctatgttcct actaaggatg 120

ttatatcagc aagtgtcaag cttcctattg ctgagagaat accgccatac actacctgga 180

tatttttgga cagaaatcaa agaatggctg aagatcagtc tgtggttggt cgaagacaaa 240

tctactatga acaacatggt ggtgagacgc taatatgcag cgatagtgag gaagaaccag 300

aacctgagga ggaaaaacgt gaattttccg agggtgaaga ttccattata tggttaattg 360

ggcaggagta tggcatgggt gaggaagtgc aggatgccct ttgccagttg ctaagcgtag 420

atgcttctga tatcctggaa agatacaatg agctcaa 457

<210> 1600
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-D6

<400> 1600

antcccgggc cgacccacgc gtccncgaat tttcaggttt ctctttccgt ttgtttgaag 60

aagcttttaa gtagaattca taaaatcttg cttagcttct gggtttgatt tgtttgtggt 120

aaagttttga ttttttttt agtttgagag ctggatttgt gattctttct ctgggttggt 180

gaagtttttt acttgcttcg atcttataga tcagagcttc tagcagcgta aaaaatgcag 240

acgaggtata tggagaggac taatagtatg agagagaaga gaaaattgga ggaagatgat 300

aatcagcagc agcagcaaca gcctgagcgt aaaaggccag ctcttgcaag tgtaattgtg 360

gaagccttga agatggatag tttacagagg ctttgttctt ctttggaacc gattcttcgc 420

cgagtggtaa gtgaagag 438

<210> 1601
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-D8

<400> 1601

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tagtttctct tctatcccct ttctgggttt tgtttgaacc ctagctcgct ttggatccag 120

tggttttaag ttaaaggtaa atttatcgaa agtaagtaga ttcctaatgg cagcttccaa 180

tcattcatct ggtaaacctg gaggagtttt aagtgatgct ttatgtaggg agctctggca 240

tgcctgtgct ggacctcttg taaccctacc tcgtgaaggg gaacgagttt attatttccc 300

tgaaggccac atggagcagc tcgaggcatc aatgcaccaa ggtttggagc aacagatgcc 360

ttccttcaac ctcccatcta agatcctctg taaagttatc aacatccaag cgcagggcag 420

agcccgagac tgacgaagta tatgcgcaaa taaccttatt gccaagaac 469

<210> 1602
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-D9

<400> 1602

cgganattcc cgggtcgacc cacgcgtccg attnaatttg ccctcttgtt tcatgtttgg 60

tcctgtcaat cttcccttc tttcttctca gctatttgca acaaagaagg cagactctat 120

gtcatgttgg acactattgg atttgtacct aaaccccagc accgatgccc cattcccgtt 180

gattatgacc ctgataaggt gctcctacca agtgataaaa ccgcagatac aattgtcaga 240

aatttgacct acgtaacaga ggatgaatcc tctaagtctc agtttcctct atttggcgga 300

aacataagct ggtctgaacg aagaagaaag cttcaaactg aaacctgaga tgaaggtcat 360

tgcggattca tgccacgtgg tggtgctgaa atgtcatctc cnggataaag aatacgttaa 420

agaagtgcan aattgttgtt gccacgggga atttccnatg ccataatgat gaaacccaac 480

caanccatca a 491

<210> 1603
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-E4

<400> 1603

ctctacgccg ntcggtaggc ntcanagaat tccnagggnc gacccacgcg tccncccacg 60

cgtccgacat cttatctgca gttagatttg ggacatgttg aaccatgtat ttctggtcct 120

aaaaggcctc atgaccgagt gcctctgaaa gatatgaagg ctgactggca tgcatgcctt 180

gacaatcctg ttggattcaa gggttttgca gtgccaaaag aaaaacaaga agaagttgtg 240

aagttctcat acaacggaca acctgctgag atcaagcatg gtagtgttgt tattgcggca 300

attactaagt tgtacaaaca cgtcaaaccc tagtgtcatg atcggagcag cactcgttgc 360

aaaaaaagct tcagatcttg gcctgaaggt aaaaccatgg gttaagacaa gtcttgctcc 420

agggtctaaa agttgtcgag aaatatttgg atcgaagtgg gctccgagag tccttgac 478

<210> 1604
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-E6

<400> 1604

cgcgntcagg aaaccggtca cagaattccc gggccgaccc acgcgtcnng gaagagagag 60

acggcgatgg cggctacagg atctggacgg tctcaattca tttccagttc cggcggtaac 120

cgaagcttct ccaattctcc actcatcgag aactctgatt ctaatcagat tattgtctct 180

gagaagaaga gctggaagaa tttctttgct tacttaggcc ctggttttct tgtttcaatc 240

gcatatattg atcctggaaa ctttgagact gatctgcaag ctggagcaca ctacaagtat 300

gaattacttt ggatcatatt ggtggcctca tgtgcggctt tggtgattca atctctggct 360

gctaatcttg gtgttgtcac aggaaaacat ttggctgagc aatgtagagc cgagtactcc 420

aaagttccaa actttatgtt atgggtcgtt gctgaaattg ca 462

<210> 1605
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-E8

<400> 1605

anctcccggg ccgacccacg cgtcnacgga cgcgtgggcg gacgcgtggg gcttgatcat 60

aagcaagagc ggcttcctcg gctttgtcaa atgtcccgag ccaaacccta attccattcc 120

tcgttgantc tcttatctcc gctgcaaatt tcccccacgg ccttttcctc actcctctgt 180

atgatctttc ttcatcaatt ccaacctttt cttcttcttc ggagttagaa acgtcgccgt 240

tttgaatttc ttccttaatc atcatctccg gtgactcaaa tgagaaaaag tcatcggagt 300

aatcataatt agggcaaaag aaggcttgag gttcagatga ttgatccaag aaacagctct 360

cgttccataa gagtgattct tgtgatgagc tccaaagaac ttggcagatg aatacatgga 420

agattgggaa tantccataa gt 442

<210> 1606
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-087-Q1-E1-F1

<400> 1606

gtacgcctca agaattccaa ggtcgaccca cccgtccgct ttctcacatc tactcgattt 60

ctgaatcgcg aacgcagcga gcgatccgga atcgagagag agagctacca atttttccaa 120

cttgttcggt tccttataaa gctgtttact ttcccttgcg aattctctct ctctctacta 180

taaagcaata ccctttttctt tctttttttgg taacccccaa accctacttt gtccagcgag 240

aaaggaagag gggtttcgtc tgattccgct aaatctctaa gtctttatct aaagatcatg 300

gattccgatg atgatatgca cgatatggga ctcggtagat tatgattatt acagcggcgg 360

cacctatgat gacaacgata gtgatgaaac tgatttcggg tttggtgagg ctgacaccgg 420

acgatgccgc catcatccgc tcctatcgct ctaagagtaa t 461

<210> 1607
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-C8

<400> 1607

gaattcccgg gccgacccac gcgtcantac aaatctaagc ttctgtcgtt gacttcgaaa 60

actgatatct ataagtcaaa atccccattc tcaatcgctc atcgtcttgt agaactaatt 120

gactaaacaa tggcggacaa cacaggatcc gagatgaaat caggttcgtt tatgttagag 180

aaatccgcca agatctttgt cgctggacat aggggattgg ttggatctgc cattgtccgc 240

aagctccagg atcagggttt caccaatttg gtccttcgaa cccattcaga gcttgatctc 300

actagccaat cagatgttga atctttcttt gctacagaga aaccagttta tgtcatccta 360

agctgctgct aaagtcggtg ggattcatgc taacaacaca tacccagctg atttcattgg 420

ggtcaatctc caaatccaga cca 443

<210> 1608
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-A6

<400> 1608

acgcgtccgg aaggactaag acatcacgag gaacacgatg ggtgaagcgg tcaaggatgg 60

gagagaagaa gtgattcaag cttggtatat ggatgatagt gaagaggatc agagacttcc 120

tcaccacaag gatcctaaag agtttgtatc gttggacaaa cttgcagagc tgggagtact 180

tagctggaga cttgatgctg ataactatga aaccgatgag gatttgaaaa agatccgtga 240

atctcgtggt tactcttaca tggacttttg tgaggtatgc ccggaaaagc ttccaaacta 300

tgaagtgaaa gtgaagagct ttttcgaaga acatttacac actgatgang agatccgtta 360

ctgcgttgca agaactggtt accttgatgt taaaaattct tatgaancct tgggttaagg 420

gtattnggta a 431

<210> 1609
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-A8

<400> 1609

gtgaaggtca ngaattcccg ggccgaccca cncgtcancc cacgcgtccg atacaagaga 60

agcaattaga aaggcttaac cataattaga gattcacaac caaagcaaaa tggcatcata 120

caagctcttc cgcattgctt ttctagtgtg cctctcttcc tctatgatga tcaacacttg 180

ctcagcctca cgccgccttc tccaacaaca acctcttcct caaatcccaa atctgcctat 240

tccaacaatg ggactacctc cattgccatc gacgttgcca caaccgtctt taccaactct 300

ccccacaatg cccactgcaa tgtctccatt tccaatgcca tcagctttgc cacaaccaaa 360

tcttcccacc attcccacgg caatgcctcc aatgccaact ttgccttcat ttccaacaac 420

aattccttct ccttcggacn aataatccaa ncaattcctt 460

<210> 1610
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-A9

<400> 1610

acgcgtccgg ttancttcga atccaaattt ctgtgtctgc ttttgattca cagagaagga 60

gcaggaaaga tgttggatat caatctattt cgtgaagaga aaggtaacaa tccggagatt 120

atccgagaat cgcaacgccg gagatttgcc agcgttgaaa tcgtcgatga gatcattaag 180

ctggacaagg aatggcgtca gcgtcaattt gaagttgata gcttcagaaa ggagttcaac 240

aagctcaata ngcaagtggc gcagctcaaa attaaaaaag gaagatgcga gtgagattat 300

tcaacaaact gagaanaaca aacaagattc tactgcaaaa ggangctgaa attcntgaag 360

cctaatgctg ctttgaaann cnaagttggn ngcaggttgg naattttggn ccatgattcc 420

cggntccatt ggataangga ngangcnaat aacctgtgga ttaacccgtt ggggggaaaa 480

n 481

<210> 1611
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-B1

<400> 1611

tttaagntgc cggtgccgtc aagaattaac gggtcgacnc acgcgtccgg aatcntcttc 60

cctcctcctt cttctctctc tctcgtttct caactaccgt ctctctgctt cttctgttcc 120

caaaaccgga aactttactt cgtggaattt tcccttgttt ctgaaatgga agacacaaca 180

tttaccaaag tgttcgttgg aggattagct tgggaaacac acaaagtctc tctcaggaat 240

tactttgaac agtttggtga cattgttgaa gctgtcgtta tcactgataa atctagtggt 300

agatctaaag gctatggctt tgttactttt tgtgatccgg aagcagctca gaaagcttgt 360

gtagatncag ctcctgttat tgatggaaga agagctaatt gtaatccntg ctgcttttgg 420

ngttcaaaan attaaaacct ntttcnccaa tccaagggna aatntggggg gaaaagggaa 480

<210> 1612
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-B11

<400> 1612

tacngccccc ggaaaatccc gaagtcgacc cacgcgtccg aaggaacaaa ggtgaggttt 60

cangacacag acagaacaaa caacgaagaa aattcaaaat cttatttcaa ttcaacgtat 120

actttcctta aattaggaat ttggttttcg agaaaattga gatccgaata actatggtga 180

gactcaagac gagtctctgg gttcttctcc ttgccctcgt ttcaattcag ttaaatggtt 240

cgtttggatc tgaatcaagt aaagtagctt atgtcacact tttgtatgga gatgagttct 300

tattaggagt tagggtattg ggtaaatcga ttcgtgacac tggatccact aaggatatgg 360

tcgctttggt ttctgatggt gtctcaaact actccaagaa gttactcaag gctgatggat 420

ggnaaagtag aagaagatta atttactggc aaatccaaat caaagttcan cccgaccaag 480

gtccggggtg tttanaccaa acctt 505

<210> 1613
<211> 513
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-B12

<400> 1613

tttgcctgtg cntaccggcc cgganatccc gngtcgaccc acgcgtccgg ganaaagttt 60

atcagtcata caaatcccga ccaacaacaa caaaacccta aaatcaagct tcgaaaatgg 120

gagagatgat gtacaagctc ttcgcttcag cgtcactact aaccctagga ttgtatcatc 180

tcatctgcac tttcttccat ctccttaaat ctccccaatc ctacgccgcg aaacccttt 240

acccttttcc acgtctctcc tccgtcaccg gaaacaacca ccacaatcac aaccgcctcc 300

aaaatctacc actgttcatc ctcatactct ctctattcgt cgctttcctt cacgaaaccc 360

taatctcctt ctactccgat tctctcgtca aaggaagtac tcctgttcac cggattctca 420

tnctctcaat tccgccgccg tgttcttcct cttcntcatc aatcgccatt ttanaatcnc 480

tcctcccgaa tttcaacctc ngttaatccc ctc 513

<210> 1614
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-086-Q1-E1-B2

<400> 1614

gtnccggtca agaattaacg ggncgaccca cgcgtccnca gatgcgattt tcttctcctt 60

cttcattgtg ctcttnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnna agctttcgtt ttgtgtttct gattttgatt cgattttgat gctcatcgaa 180

gagaaccctt gattttgttg ctgtagttca tagagatttt acacattttg tggaatttag 240

tggatttatg atgatgggta ggttagtttt tgtaatctgg ctctataatt gtctctgttt 300

gctgctactc tcgagcttgg gtgacgcgga tcaggccaac atagattgct taaggacctt 360

taaatctcaa gtagaggatc caaatagata tttatcgact tgggtttttg gcaaacaaga 420

ctggctgggt aaaaccgcaa gttcaattgg tgtgaccttg ttggcatgat a 471

<210> 1615
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-B3

<400> 1615

acccacgcgt ccnaccgtac atcactcttc atcattgctt gtatcctcta ccaaaacatc 60

tgccacctcc aggtcctccg tcttgatgaa ttcgcacgct gcttcgcctc tgagatcaaa 120

gatttcagtt ccatactcgc cgagcatctc aaaatccgtc gtgaactgaa gattgtcagt 180

caccggttca gacgattcat tcttttgtca ttgtttttcg tcactgccac tcagttcatg 240

gcattgctga ctaccatcag agctagtgtt ccctttaata tctacgaagt tggcgagctc 300

gcgttatgct ccacaagctt ggtgtcagga ctattcatat gcttgaaaag tgcaacacaa 360

atgactcaca aagctcaatc agtnacgagc 390

<210> 1616
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-B6

<400> 1616

aacttctccg ccgcncggta aaggtcacag aattcccggg ccgacccacn cgtccntgct 60

ctcattgacg agaagatcct atgtatgcat ggtggattgt caccggaatt ggaaaacttg 120

gggcagattc gggagattca aaggcctaca gagattccag acaatggtct tctttgtgat 180

ttactttggt ctgatcctga tcagaagaat gaagggtgga ctgatagcga tcgaggtatc 240

tcctgcacgt ttggagccga tgtagtcgct gacttttttgg ataagaatga tctcgatctc 300

atttgcagag gccatcaggt agtggaagat gggtatgagt ttttcgcaaa acggaggtta 360

gtcacaatat tctcagctcc aaactatggg aggagagttt gacaatgccg gtgcattatt 420

gagccgtgga tnaatctctc gtttgctcct ttgagantct gaa 463

<210> 1617
<211> 514
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-B9

<400> 1617

ccnatctcct acgcccccgg anatcccgaa tcgacccacg cgnccgcaca gttaaaccct 60

cacaaaattt cctcaggact aataatctgc gatcgatcgt cgttatgata agtctctaaa 120

gaagattgat gattctggat tacattatca tgggaggagc ttgttcaagg aagagagatc 180

aacaagttga gatattttaa acagaggtgt ctctggaaaa tatagcaaga gttcaagttc 240

gaaatggtta gctacttcgc tctctaggtc tggctccgat gttaaacgga agaatggaga 300

atgcccgtcg cttatggagc tctgtgtccg caagatacag gaggacattg atagatatac 360

caagttctct gacctaccta gagatatcag tcagcagatt tttgatgaat tggnttantc 420

ccanaagtta actttaaaag tccccttgaa gcnattcngg aactgtngaa atccaaggat 480

cttaccttgg gggaataacc ctgggagttt aatg 514

<210> 1618
<211> 523
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-086-Q1-E1-C10

<400> 1618

gaactgtttc ccttccctac ngcnccggan ntcccgangt cgacccacgc gtccgaaaaa 60

aacttcagag cggtgatcag attcaccgat ttttctcaaa atgctaatca aatcccaaag 120

attgactctt ttctctcctc tcttgtccaa aacaagacgg atcccggtta actcccacca 180

aacactggtc gcagaatcgg tgataactcg gagaacactc ggtgcgatca ccgcaactcc 240

gagttttcat aaaaatccgg tggtgattcg acggaggatc aaattagaga gagttacgag 300

gaactgcgtc agaattgatc ggnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnggatctg gtgaaacaga gcatatggga acaagatgaa aagagatagt gaaagtttca 420

caangtccgg cgaattggga tgtngatttn ttggaccgtt tgattgannt ctcatccgac 480

aacggtccgt caatcngggc aaaaggaagc tccatcgaaa ntc 523

<210> 1619
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-C2

<400> 1619

gccggtcana aattaacggg ncgacccacg cgtccnttca ccactttgca gggttttaga 60

ttcttgcact cttggaggtt gagcttagtt cgacatgaag gtctttatct aatctccact 120

cgctggcaat gaagatgaga gtggaaaccg cacttgcgat ccttttggtt ctcatatcaa 180

ttcaacaatg ttatggaggt gtnagcaact atacatgtac gtgtttctct tcgggcaatc 240

gaagtgatat cctgnaatct aactgttcca catcatgtaa ttgcagacca gacagagatc 300

aatgggtatg tttgtgtcct gcaaatggat ttccggttat agccattggt ggttcaaatt 360

cgtcatgctt cacttcatgc aactgctctg ctggtgctac aaaatcttca aaanaagcaa 420

taattaaccg anggaaacc 439

<210> 1620
<211> 472
<212> DNA
<213> Arabidopsis thaliana

Sequence Listing.ST25

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-C3

<400> 1620

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cttggatcat cctcctaatt actcagtgat catgcataga ttccttgtaa agctatcttc 120

ttcttcttca ccattctcta atcaattgag aagcttgaag aaccagcgtc tgattctccc 180

tctattacct tcttcaaaac cttttacctc ctcctctgtg tcaccacctc caagtccctt 240

gaacgcttct aatcgatttg ggtatcctta ttccgccgat ttgtttcgaa atttgtcacc 300

tttaaaccca aattcgagga ttttaggagt caatgggatt actagtagta agatgtatca 360

agcagtgaag cggtcaagag aatcgattga agtacgaagt tccgaatgtc ngaactggac 420

cgggcggttt aacngncgnn aaacgaatgg aaaaaatggt ccaagggaaa an 472

<210> 1621
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-A5

<400> 1621

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gtcccaattt cctctttggt tctttccttc tgggcttgtt attgttgttt ctcgaaaaag 120

aagaagaagc gatggtattg ggattttagg gattattgcg gtttgttgta tatatatata 180

tagaagctga gggattttgt gttgtgaaga acatcgaatc ctgtttttt ccgtaagaaa 240

gttcttagat ttctccaagt gaaagaagat gtcatcagct ggtgttgcgt taagtccggt 300

tcgtagcgag ccattgatta tgcctctggt tcgtgccaat tcttgtcttg attcttatcc 360

tgacgacacc atcatgattt accttacact tcctggatng gtgataccaa tgcnaatgnc 420

tgnatcncaa ttcaatngaa ttcggttaan cttcggatca 460

<210> 1622
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-G2

<400> 1622

ggccggtcan agaattaacg ggtcgaccca cgcgtccngc tgatgcgatt tgctctgttt 60

tcatggcggg cgcctcatca ccggcgagtt tgagagcttc tcgtagccgt cggctgggga 120

aggagacgaa tcgatccgat ctattcaaaa aacctgcagt tccattcgca ttcgcgctaa 180

ttcttgctga tgcaatccta gtcgcactta ttatcgccta tgttccatac acgaagatcg 240

attgggatgc ttacatgtca cagtgggttt ctcgggggag agagagacta tgggaacttg 300

aaaggcgata cagggccatt ggtttatcca gcaggtttcc tctatgttta ctctgcagtg 360

cagaacttaa ctggagggga agtctancct gctcagattc tttttgggtg ttctctacat 420

tgtcaatctg gggatcgtcc tgatnatc 448

<210> 1623
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-G3

<400> 1623

ggtcgancac gcgtccgatc ctcttctctc tctctcaatc tcaatggctc tgttttaaaa 60

ngggcaaatt agagagattt ctccttcaat aacaaaaaat cgccagcttt atctctctct 120

ttttcacatc ccatggctag atggtgacga cgattcacgc ataaactagg gttcccccac 180

aaatcatctt acacgtatcc tctattcctt ccttcctttc tccgtcatca tcatttttcc 240

caccgacaac aatctctcgg agtttgggta ttattacttc tctcatcaac caattgtacc 300

actagatctc ccagattcct tcattatctc tatcaataat ggcgttgaag tctanttctg 360

ctgatggtaa aaccanaaag ctccggttaa attctcattg ngttaattta agttggcntc 420

ntttanattt tgggaacaat ggca 444

<210> 1624
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-G4

<400> 1624

cggggncgag ccacgcgtcc aaacaaagcc agcgananag acanaggtca gaanatttga 60

tttttcgtan tcctcttcaa aggcaaacaa tttacacagc tatatatata tttttagggt 120

ttttgagtat ctcgcgaggt tttacatana tttctccatt atggattcga tgatgaatca 180

gaagactgtt ttggctgtga cggatgatgt ggtgttacct gttagctctg ttttanctat 240

aatgaaagag cttggaaagg aagtgattga gagttttgat cctctgatta ttactcaagc 300

atccacaatn aatcagtttc ctttggatgc ttcctctgtg gangcggtat ttagccattt 360

ccaanacatc tgatttccaa gtgataaaat atgtggtgag ttccaagaat cctgangcct 420

ggcggcaccg gtttcggtgt 440

<210> 1625
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-G7

<400> 1625

ggtcgacnca cgcctctact ttnagtcann cgnagagttc aaaggttgag ccaagtgggg 60

aaacagatgg tgacttgaaa agaaaacagt ctgaggtagt ctccgaggaa caaaaccgtc 120

ctaacaagtc cccaaggagc tttgacaaac catcaccgag caataaaaag ggcaatggtt 180

ttaagaaacc caagagcaag aaggtggact ggagcgtttt gaggccacca aaacctcaaa 240

ccaaataggg tttaaattag ctaactacag caatctatat gctattagtt acatcggttc 300

atatgttcta gtanatcgtt tgttgctctg tctgtatcgt cattcccgtg gtgttgcaac 360

ccgttggata aattatancc aaaagttttg aanttgtttg ggttaaaatt gcnctngttg 420

tctaaaanaa aaaaaaaagg gc 442

<210> 1626
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-H1

<400> 1626

acgttacctt ccgggccggt caaaattaac gggtcgancc acgcgtccgc tcctctttgt 60

tgtaactgcc gtcgctaccg acactcgtgc cgttggagaa ttggcaggta tagccgttgg 120

agccacggtc atgctcaata ttctagtcgc agggccatcg actggtggat ctatgaatcc 180

tgtgagaact ctaggaccag ccgttgcatc aggaaactat aggtcactat gggtgtatct 240

ggtggctcct acacttggtg ccatatctgg tgcagcggtc tacacaggtg ttaagcttaa 300

cgatagcgtg actgacccgc ctcgtccggt taggagcttt cgtcgttaag tgagtgagag 360

acttgtttac aagtcntttg cnttgtataa atttactgta tgattatgta atgatatgaa 420

aaagctttgg aagcntgttg tnaagaataa aangggatgt tgactaataa ttccacnca 479

<210> 1627
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-H12

<400> 1627

ggggccgagg nacgcgtcaa nccacangtc cgatggaaga gaagaagaag gagcttgaag 60

agttgaagta tcaatcaggt tttggtaacc acttctcatc ggaagcaatc gccggagctt 120

taccgttaga tcagaacagt cctcttcttt gtccttacgg tctttacgcc gaacagatct 180

ccggtacttc tttcacttct cctcgcangc tcaatcaaag aagttggntg taccgggtta 240

aaccatcggt tacacatgaa gcggttcaag cctcgtgtac catgctcana agaagcttgt 300

gagtgaagtt tgatgcatca aatagtccgt acgaatccga ctcatccttc ngtgggngac 360

ctnagcgatn gtcctgatnt cgggngtttg attttcgnnt gggtgggggt taacttacca 420

nttttggtgg gaagctngga aagctc 446

<210> 1628
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-H5

<400> 1628

nctttgccgc cgcccaggta caggtcanag aattcccggg ncgacccacg cgtccggtca 60

agtcaacaag aaaccgggtt tgtctacaat ggcttcgagc aagcagatct ttttattgat 120

gggatcgcca aaatactacc tgatgggctt ttgcagttga caaatactac agagttgcaa 180

atgggtcatg ctttcttcaa gaagccgttt gattttgatc catcttcatc actatcgttc 240

tatacacatt ttgtgtgtgc gcttgtgcct cctaagttgg gagctgatgg tggccatggg 300

attgtctttg ttgtatctcc ttccattgat ctctctcatg catacgcaac tcagtacttg 360

ggggtcttca gcaacttaac aaatgggact tcctcttcac atctgctanc tattgagctc 420

gataacgtta agacatnana ntttaatgan ctgganaaag cctcatgttg gtattga 477

<210> 1629
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-H6

<400> 1629

gtcaaggtca nagaattccc gggccgaccc acgcgtcang agacgaactc tttttctttc 60

tcgtgacgaa tgtttctgtc tagaagcttt taaggattaa gactctccaa aattttgacg 120

ccgtgttatt ctcttcccgt ctctcatgga tccttcaaga cgaccaccga aggactctcc 180

ttacgcgaat ctattcgatc tcgagccgtt gatgaagttt agaattccga aacctgaaga 240

tgaagttgat tattatggga gtagtagcca ggatgaaagt agaagcactc aaggtggggt 300

agtggcaaac tacagcaatg ggtctaaatc gagaatgaat gcgagctcca agaagagaaa 360

gcggtggaca gaagctgagg atgcagagga cgatgatgat ctctacaatc aacatgttac 420

tgaggagcac taacgattaa atgccttggg ggagcatgt 459

<210> 1630
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-H8

<400> 1630

ggagaangaa agatagaaga tcatggggaa gatagaggag tacaagccgg taatggcgat 60

gacgatgatt caactatgtt atgcaggagt gactctcttt gcaagagcta ctttggttca 120

tggattaagc cctcgggttt ttatcctcta taggcaagcc tttgccacca ttttcatctt 180

cccatttctt tacttatcca ggagaaaatc aaagatagct atatcttctt tggatctaaa 240

gagcttttct ttaatattct tggtctcgct tataggcatt acaatcaatc aaaatctata 300

tcttgaaggt ctttacttaa cttcatcatc aatgggaagt gcagtgggta acatcatccc 360

tgcaatcacc ttcctcatct caattctcgc ccggatacca agaaactgaa atctccga 418

<210> 1631
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-H9

<400> 1631

ggtaccggtc anagaattcn cgggncgacc cacgcgtccn tcaagatctg acattgttat 60

gtgcttgaat tcttcatcaa gctcgtcaga aaaacaccaa aaggtttcaa atttatctga 120

aattcgtgaa accctaaaaa gggttatgtc aaggtagaag agacagaaca aagatagata 180

tggtaaggaa gcagaagtac gggaaggtag tgttggtttc ttgcatcgcg cttctagcaa 240

ccggactcat tgccgacttt ctctgggcta cttctcatcg attctcctcc gccgcaatct 300

ccgccggatt atctctacct tcttcactta ccaccgtaat cgttcctggc caggagaaag 360

atacaaagaa gaagaangat agtgtgaagg aaaggaaact gtctaatacg tttcaaagat 420

ttgcctgctc cctgaantga aatgggaaa 449

<210> 1632
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-086-Q1-E1-A1

<400> 1632

tttacgccgn ccggtaccgg tcanngaatt cacgggtcga cccacgcgtc cngttttttt 60

tcttcctttt cctgatctaa attaacttat atttcttagg gtttcacttc ttgaaacatt 120

taatcagaat taattaacct ctctagggct ttcatggcga atccatggtg gacaggacaa 180

gtgaacctat ccggcctcga aacgacgccg cctggttcct ctcagttaaa gaannnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt tgagtggaga cgaccacgag 360

ccacgtgaag gagccgtaga agcccccacg cgccgtccan gtggaagtcc tgccgggtcc 420

aagaacaaac ccaaaggcca cgttttcggt cacccngnat tccccaaagg gcncccaaaa 480

ccc 483

<210> 1633
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-A11

<400> 1633

ccgatatccc anatcgaccc acgcgnccgg gcanctgcaa nggcttctca tgtttcgacg 60

gctcgatcac cggctctttc cttctcttct tcgtcttcct ccttcttccc cggtactact 120

cttcggagat tctccgccgt ttcactccct tctccggctc tccctcgcct tcgtgtttca 180

tgtcaagcct cctccgtcac ttcgccttct tctccttccg atgtcaaagg aaaatctgac 240

ctgaaagact ttctggcaat agatgatttt gacacagcca ccattaaaac gattttaaga 300

caaggcttca gaggttaagg ccttgctgaa atcaggggag agaaattatc tacctttaa 360

agggaaatct atgtctaaga tcnttgcaaa aaccttccat gagggaccnc nggttttctt 420

ttgagaacag ggttttttct tgcccngtgg ncaancgttt nnancnaggg tcccaattaa 480

aatcaaa 487

<210> 1634
<211> 451

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-G11

<400> 1634

gtaccggtca aagnattcac gggncgaccc acgcgtccaa aaagatgagc gacggagacg 60

acgctgctag acgccgtacc gcggcggtga ctgattaccg gaagaagctc cttcatcaca 120

aggagctcga atcccgtgtc cgaacagcta gggagaattt aagagcagct aagaaggaat 180

tcaacaaaac tgaggatgat ttgaagtctc ttcaaagcgt tggccagatt attggagaag 240

tactacgtcc tcttgataac gagcgattga ttgttaaggc aagtagtggc cctcgttatg 300

tggtgggttg tcgtagcaag gtggacaagg aaaagcttac ttctggaact cgagttgtcc 360

tggatatgac tacgctgaca attatgcgag cccttcctcc gtgaagttga tcctgttgtt 420

taaaacatgt tgcatgaaga ttcaaggcaa c 451

<210> 1635
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-A2

<400> 1635

ggtgccggtc anagaattaa cgggtcgacc cacgcgtccn aagaaaacca tttgttttct 60

tagagagagc caagaatatt aaaagagata tagagaaaag atttgcttta ataatgccaa 120

cgtcgataca gtttcagaga tcctccaccg ccgcagaagc agccaacgcc accgtaagaa 180

actatcccca ccaccatcag aaacaggttc aaaaagtgag cctcacgcgc gggatggctg 240

atgtgccgga gcacgtggag ctttcccaca cgcacgtggt tggtccttct cagtgcttct 300

ccgtcgtggt acaagacgtg gaggctccgg tttccacagt ctggtcgatc ctaagccgct 360

tcgaacaccc tcaagcgtac aaacacttcg tgaaaagctg ccacgtgggt tatccggaga 420

acngtccaaa aaggtnggtt cggtaaaaaa ggtcaantt 459

<210> 1636
<211> 439

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-A3

<400> 1636

cgtccngggc gattgagcga agaagaaacc ttcgttctct ctcggaaatg acgaagagga 60

agaaggaagt aatagatgtc gattgctccg agaagaaaga ttttgtgatt gattggtctt 120

ccgctatgga taaggaagac gaagttcccg agctcgagat tgttaatacc accaaaccta 180

ctcctccgcc accgccaacg tttttctccg acgatcaaac cgattctccg aaactcctaa 240

ccgatcgtga cctcgacgag cagctagagc gtaaaaaagc gatcctgaca ttaggtccgg 300

gcttacccga caagggtgag aaaattcgac tcaaaatcgc tgatccgaag aggagaaaca 360

ncgtanagtt ttaaaaaggn ccaaaattgg ngggggcaaa aattncaaag gncttntctt 420

ccaanaaccc cagggttca 439

<210> 1637
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-D8

<400> 1637

actttgncgc cgcccaggta caggtcaaag aattcccggg ncgacccacg cgtccnagaa 60

aaataaataa aagatctaac tttgacggct ctcttaatct tactcactcc ggttttaagt 120

cggaatagac tgatgggagc ttgatggtta ttgttagatc agatgtggat ttaaagcctt 180

cgctgaacta acaagtctat ggaagaagca aagacccttg ttttacactg tatgttgtga 240

ggaatttgtc tgattttggg tgataaaggt gaagtctttg agtttgtaat tttgagataa 300

gattggatgg tgggaagaga ggatgcgatg gggaatgatg aagctcctcc tggttctaag 360

aaaatgtttt ggcggtctgc ctcttggtct gcttcacgga ctgcatcaca agttcctgag 420

ggtgatgagc aaagcctgaa cattccgtgt n 451

<210> 1638
<211> 453

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-D9

<400> 1638

cggtagcggt caagaattca cgggncgacc cacgcgtccn actaaatcca attgaccgaa 60

taaaatccag taaaccgatc cataaaccaa aattggaaga aaacaatgcc tgtttaatag 120

gtgttgaaac tttgctgaaa aaaaacgaag cgagcaccct ctaaaatgcc ttcgatttct 180

ctggcgccat tgatttagtt ttctctctct gactacaaag tatccattcg ttcaaaccag 240

tttcttccca ttttcgattt ctgtcaaaat tcaccaacca actccaaaaa ctctgttatt 300

gaataagttt cttgatctta aaacaaacga tctcaaagaa tggcacgaca cgatcctaat 360

ccatttgctg atgaagagat caatcctttt gcgaatcata caagtgttcc tcctgcgaag 420

caactcttat ctcaagccac ttccaacggg aaa 453

<210> 1639
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-085-Q1-E2-E10

<400> 1639

acgcgtccgc ccacgcgtcc gcccacgcgt ccgaaaaaaa gggttaggtg gatctctcat 60

gaaatcggtg gagctccccc atatcttttt taaatagctt tcttcttttg gccccttacc 120

cagagataga ttcttatata ctactgagaa tcttcaattt ctgcaacttt tgtatctctt 180

cctgatggag tcttcaagtc cccaccatag tcacattgtt gaggttaatg ttggaaaatc 240

tgatgaagag agaataattg tggcgagtaa agtctgtgga gaagcaccat gtgggttttc 300

aagattctaa gaatgcttcc ggggatgctc acgaacgctc tgcttctatg cggaagcttt 360

gtatcgcccg tcgtgctgtg tccagtgttc atgaattgtt gaaattg 407

<210> 1640
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-E11

<400> 1640

gtcanagaat tcacgggtcg acccacgcgt ccncccacgc gtccggtctc tctctctcgg 60

gtcaaaatta gggtttcgtt tcactatcca gagtgtatac aaaggttgtt gtggagcttt 120

tatcagatca caggaataag atggaggtat ttggaaaatc tcccatggtt gttacatctg 180

ccaatgttat ttacttgtct gcaattctgg gtcgcgattg cgatggacac aaatgtgatt 240

ggaaatgtga gaatgaaaat gtttgtggga atatgtatcg ctgcaaacta actggactaa 300

ctcatgtctg cgacaagaac tgtaaccagc ggattctcta tgataaccat agctctttgt 360

gccgagccag tgggaggatt ttccctctct cgtccgtcga agaacaagcg gttaaaggtg 420

ttcgggagga aacttgacnc cg 442

<210> 1641
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-E2

<400> 1641

acgttcactn tgccaggccc cggtccaaga ataaacgggt cgacccacgc gtccncccac 60

ancgtccgtc nacttcctca tctacctcgg ggacatgtgg tcagagtcca agtcctttga 120

gaaacgtcag aaggaacacg acganaatgt caagaaagtc atcatnaagg cttaagggta 180

gcggatgctt ccaaggacgg gcttgtctgc actgctcgta agccctggat cnctgttgga 240

atgaggaacg ttgactacaa nagagcccgg catttcgang ttgacttggg gganttccgt 300

aacatccttg anatcaacaa gganaagatg actgctatag tggagccnct tgttaacatg 360

ggacagattt cccgtgctac cgtcccaatg aacctgtctc tcgctgttgt tgctgagctt 420

gatgacctta ccgttngggg acttancaat ggatatggaa ttaanggaac t 471

<210> 1642
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-E3

<400> 1642

ggcccggtca naaaaaccgg gtcganccac gcgtccaatt tcctctgttt tgaagtcgct 60

gcttctgctt cttcatcttg tcttcttgat tcagcagcat gttgattctg cctctatcgt 120

caagtttctt cctggttttg aagggtctct tcccctttgag ctcgaaaccg ggtatattgg 180

tattggtgag gaagaggaag tgcaactgtt ctactacttc atcaagtctg agaggaatcc 240

aaaagaagac cctcttcttc tctggctaag tggaggacct ggctgctctt ccatctctgg 300

ccttcttttt gagaatgggc ctctggctat gaagctcgat gtttacaatg gaactctccc 360

ttctttggtc cctactacat attcttggac aaagacttcc aacaatgaat attcttggat 420

nagcccgttt gnactggcnt tcnccaattc aagaactcaa caa 463

<210> 1643
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-E4

<400> 1643

anaanannga taganaaaaa aaatgggagg caaaggtgtg atgatggtgg cgatactttg 60

cctttgggca ctctctgcaa catctgaagc agtaacagan gctganccag gtttgatnat 120

naacttctac aaggacacgt gtcctcaggc cgaagacatc gtccgtgaac aagtcaaact 180

cctctacaaa cgccacaaga acaccgcttt ctcttggctc cgtaacatct tccatgactg 240

cgccgttgag tcatgtgatg cgtcgctttt gctggattcg acaagaagan agctangaga 300

gaaagaacac gacaggagct tcggacttag aaactttagg tacatcgacg agatnaagga 360

aactctcnaa aaggantgtc ctggtgntgt cccaangttc ctgaaaattc 410

<210> 1644
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-E5

<400> 1644

ttactctccc gctcggtaca ngtctcnaat tcccgggncg acccacgcgt ccntcttgtt 60

tacgtncagg acaacgtcgg gagaggctgg ggttacggga tctctgccgc gactatggtg 120

gttgcagcca ttgttttact ctgcggaacn aaacggtacc gtttcaagaa acctaaagga 180

agccctttta caacaatatg gagggttggt ttcttggctt ggaagaaaag aaaggagagt 240

taccctgcgc atccaagtct tttgaacggt tatgacaaca ccacggttcc acacacagag 300

atgcntaagt ntttagacaa agccgcaatt tccaagaacg agagctctcc tagctcgaag 360

gacttcgaag agaatgatcc gtggatcgtt tcgactgtta cacaagtcga anaantgaaa 420

ctccgtgang aanttggtac cattttgggc cannaaaaaa tccttttcng ggacaattt 479

<210> 1645
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-E9

<400> 1645

aattcacggg ncgacccacg cgtccnctct ttttttttt ttggtgtcac gaaaacgaac 60

gaatcagtgt cggctcttgg gttccgaaca aaaacaacat tgtacgtcgg atccaaaaaa 120

cgcgcgttat ataaacgctt aatttctcca ggattcttct tctgcttccg ccattgctcg 180

aaaatcgcgt cttctgacaa tgtgctgaaa ctgagtcatc gtccgagtta gcaaagtgaa 240

acttcgaagt ttctcttaca ctaatctcag gtttgggatt ttgtaagaaa ccgcgtttac 300

aaaatgttca agttgaagca atggttgatt tatttggtgt gttcgttaag taataatgaa 360

cacagaagga ctgtttgtca atattacatt tgttcgaaac gcaatcgcta aaggggccgt 420

ttgtttaaat ggaaa 435

<210> 1646
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-F3

<400> 1646

ctgntcgggc ccggtcacaa atacccgggn cgacccacgc gtccngttcc tttaatccgt 60

aaaaaaaaac aaaaaaagtt ttgatttttc tctgtgagtt tgagtagtag taattaatag 120

aaacaatgga ggttgattca agcaaggatc cgaaagtcta acgggtcaaa accaaaaaat 180

tccggatgga gtcggcacga cttgtgggtg actacgcact tggcccgaga attgggtctg 240

gttcgtttgc ggtggtgtgg ttagcgaagc atcgatcttc tggtttagaa gttgccgtca 300

aagagattga taagaaactt cttagcccta aagtaagaga taatcttctt aaagagattt 360

cgatccttag cacaatcgat catcctaata tcatccgatt ctacgaagca atcganactg 420

gagataagga taattcctgg tgttgganta atggtattgg aggggatctg ccng 474

<210> 1647
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-F5

<400> 1647

tantcgccgc ggcggtacaa gtcacagaat tcccgggncg acccacgcgt cancccacgc 60

gtccgcggac gcgtgggtaa aacacaaccc aaaaatggag ttactaacga cggtcgcgag 120

ctttttcact ccgacgactc ttttcctcct tcttaatctt atgatcggta caatcgtcgt 180

aacctctcga ctcgggtcag gttcaagaaa acattaccag catcacgatg gattcgggtc 240

aggtcatgct ccggctccgt tagctagagc tccatcgatt atcgaccgag tcaagtccat 300

caattttcat ctctacaaat ttcctcatcc agaaactgag cttttctcga tgacagctca 360

ccacgacata atcgggtcgg atcttcatgt ttacccggat ccaaatccgg ctccgttaca 420

acgtgctcct tctcttttgg attgggtcaa atncaacaac aaggtcctaa ttcaagtt 478

<210> 1648
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-F6

<400> 1648

taactttccg ccgnacaggt anaaggtcac ngaattcccg ggnccgatcg ttggccncct 60

gtttccgttt tactcgacat cgttccgacg acttttgacc tggaatcgac gcagtgactt 120

caattcaact attgcacttg gtttgttggc aatggacaaa ggagcacctc ctagtatttt 180

tgtgaatgat gggtcattca tggaaagatt cagacagctt caacaggaga aagataaaga 240

caaggataag gttgtccaag ttgaggattc taagccggtg aagattatat caaatcccaa 300

acctgctgct aataaaattt ccattggatt aaagcccaat gatgcccaga agaaaggtgg 360

taagcttgct ttcagcttga agcaaaagtc taagcttctt gcacctcctg tgaagcttgg 420

tacagaagaa gatgaggatg atgangatgt taaacatgaa caangcttgg attcgt 476

<210> 1649
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-D7

<400> 1649

cgcggnacgg tacaggtcan agaattcccg ggncgaccca cgcgtccnaa accctcctct 60

cttcatcgac atctctcttt cactgcttca atggcgtctt ttgagcgttt tgacgacatg 120

tgtgacctga gattgaaacc taagattctc cgaaaccttc tctccgaata tgttcccaac 180

gagaagcagc ctctcaccaa ctttctatca ctctccaagg ttgtatcaac catctccaca 240

cacaagctct tatctgagtc tcctccagct tcaattgacc agaagcttca tgctaaatcg 300

aaatcagccg ttgatgattg ggttgctaga ttatcagctt tgatttcttc tgatatgccg 360

gataaaagct gggtgggtat ttgtttgatt ggagtaacat gtcaagaatg tagctcaaat 420

tgtttcctta aagtnnaanc ccggttnggt ttaacagtta ttatcacat 469

<210> 1650
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-F9

<400> 1650

cnccacgcgt ctcggtaccg gtcacnaatt cacgggncga cccacgcgtc cncttcttct 60

ttaacgttta tactttatat acatcgaaag catttcttct ttgtccgttc acatcatttt 120

cgaatttgtg ttttccctan aaattgtctt ttttttttc tttcttatag agaaaatcaa 180

gaaaatgtaa aaaagattga tatatttatt tattctcgtt caaatgaatc actctttatt 240

tgactcgtta gtccatgtct cgtctcactc tcttaatctc tatttcctct canatctctc 300

aaaaagtgta gttttgtgac anaaactgtt ttttaaagtt agctataaga agatgaggaa 360

gatcataggg tttagaatcg ggagacgagt ctcaagatgg atctttcgca aaanccggat 420

tcaacgttca ngatacnacc gggatacact cgatccaagc na 462

<210> 1651
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-G1

<400> 1651

tttgtgagtg aagagattta gagtaatcat gggtttaact cgaaatttca ttttatggat 60

tcttttgtca tctctcttca cggcgattca actaacgtcg tctcaacgca acactccacc 120

accacgctct aaagacgccg atctctgcaa cggcgtgttc gtttcctaca cttacttaac 180

cggtaccaag attaaaccaa acgacacgaa gaaccagccg taccggttcg aatcagagat 240

cacggtccta aacaacggcc gcgacgagct taaatcgtgg caagtctttg ttaaattcgc 300

ccaccgcgag attcttgttt cagcgaccaa cgctgttctc tctgacggtt ctaacctccc 360

ggctaacgtt gagaacggga aaatcctcgc ccggggtttc aancggg 407

<210> 1652
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-C7

<400> 1652

aaaaaatata taccaaaata aaagannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnncgataaa tttttgttga ggaagaattt ttgttgtaaa 120

gagagtttaa ttaaattatg ccttcaatag aanatgagct gtttccgtca anccgggtaa 180

attcaaaatt gaccggtcaa accgtcagct ccaccgttgt ttcgcttcta cgagcaccat 240

gtttctttgg gctctcttcc tcatcgctct caccgcttcn tacttgagtt tccanagctt 300

ccgcgantcc ggtagccgtt atctaanccg cttcttgggg cggcatccaa gtgggagaaa 360

caggttcgta cttccgctca agatcnatcg cctccnggcg ggatctccgt tccttgttac 420

cgggggcn 428

<210> 1653
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-D10

<400> 1653

aaatcgaagc gtcggctact ggaattggta catctggaaa ccctccggcg tctaaatcgg 60

cgattgagtc tttacctaga gtcgaaatct cggattgcca cataggctcg gaggctaatt 120

gcgctgtttg cacggagatt ttcgagacgg anacggaggc gcgtgagatg ccgtgtaaac 180

acctttttcca cgacgattgc atcgtaccgt ggctatcgat tcgaaactct tgtcccgtgt 240

gcanattcga gctagcttca aagccctaat cgacggagca anaacnncna ggangataac 300

cgccgntggg gatgacgatt tggagacttc ccggtggngg attcnncgta aggaggttta 360

acccagcaaa tgaaganacc gnccatgana agttttgcca agtggggttt aacagtaaan 420

tg 422

<210> 1654
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-D12

<400> 1654

tacgccgccg gtaccncgtc aaaaattccc ggggtccgac ccacgcgtcc gancatcatc 60

aaggatcgaa aacattannt agctagttaa gaggagagag anagagatgg ngatgaacat 120

tangtttcca gttatagact tgtctaagct caatggtgaa cagagagacc anaccatggc 180

tttgatcgac gatgcttgtc anaactgggg cttcttcgan ctggtgaacc atggactacc 240

atatgatcta atgggcaaca ttgangagga tgacaaanga acactacacg anacatatgg 300

aacaaaagtt canataaatg cttcgttcca aaggtttaga taccctcgag accgaagttg 360

aagatgtcga ttgggaaatc actttctacc tccatcatct cnctcaatct aacctatacg 420

acatccctga tatgtcaaat gaataccgat tgggcaattg aaggattttg g 471

<210> 1655
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-E11

<400> 1655

ggagtctcta tcgtcgtcgt atccaaagct cttcaatgga gaccgatctc aagtcaacct 60

ttctcaacgt ttattctgtt ctcaagtctg accttcttca tgacccttcc ttcgaattca 120

ccaatgaatc tcgtctctgg gttgatcgga tgctggacta caatgtacgt gganggaaac 180

tcaatcgggg tctctctgtt gttgacagtt tcaaactttt gaagcaaggc aatgatttga 240

ctgagcaaga ggttttcctc tcttgtgctc tcggttggtg cattgaatgg gntccaagct 300

tatttccttg tgcttgagng atattatggg ataactctgt cactcaccgt gggtcaaacc 360

ttgctggttc agaagttcct caggntggta anggttgcca tcaacgattg ggatt 415

<210> 1656
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-084-Q1-E1-E7

<400> 1656

acgcgtccgc tcatttctcg ttcttctgat tgatagatcg ctcggaactt ggaaagcagc 60

gtaatcggta gggagtgatt tgagttttgg tgaggatgtc tatggttgat gagcctttat 120

acccgattgc tgtgcttatc gacgagctaa aaaacgatga tattcagcgt agattgaact 180

ctattaaacg gctttctatc attgctcgtg ctcttggaga ggagaggaca agaaaagagt 240

tgattccatt tcttagtgag aacaatgacg atgacgatga ggtgcttttg gctatggcgg 300

aagagttggg gggttttatt ctgtatgtag gaggggttga agtatgcata tgttctgctt 360

ccacctttgg agactctatc cactgttgag gaaacttgcc gtgagggaga aagctgtgga 420

ttcactttgt aga 433

<210> 1657
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-F11

<400> 1657

caacaccatc caaccaccac ctccagagca aagaannnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnattc tgttggtttt 120

gcaatggttt ggaggttcgt taatggcgtc atagactcgg gagattaagg gagaacaagt 180

actctgcatc ttctggattt ctcactattt ctccttctct agaggaatag gcgagaaatt 240

gagattaata aaaaggggtg ttttttggtt ctccttcgtt tgtataaagc ctgccgcttc 300

ttaaggttct ttggaaattc tcaagtgatg gaggaaaatc tggtttactt cgcatgagct 360

attaacgaaa tttcatcatg attgtctcac tgtcacactt gtgggagtat 410

<210> 1658
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-F12

<400> 1658

acgcgtccna agaggccaag gtcatagcca agaaaccggg agtggtttca gtttttcctg 60

acccacactt ccagcttcat acaactcatt catgggactt tctcaagtac caaacatcag 120

taaaggtcga ttccggtcca ccttcatcag cctcagatgg atcatatgat agcattgtcg 180

gaattcttga cacanggata tggccagagt cagagagttt caatgacaaa gacatgggtc 240

caattccgtc tcggtggaaa ggtacatgca tggaagcaaa ggacttcaag tcttccaact 300

gtaacaagaa agatcattgg agcaagatac tacaaaaatc ctgatgatga ttcagaatac 360

tataccacaa nggatgtcat cggtcacggt tctcatgtgt cctccaacat agctggatct 420

gccgttgg 428

<210> 1659
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-F6

<400> 1659

aaacagaagc agtggcttct cattgatact cttaggcagt tggagacaga aaaggtagat 60

cttgagaaca cagttgtaga tgaaagtcaa agacaggctg ataatggatg ttccggtgaa 120

ttaagacacg agaagttcag tgaaggcact gccactgagt ctgatgatga taatgaacga 180

ggtgatgccg ccgaggtgga atttgatgag gaagaaaata ccttttttga tacacgtgat 240

tttctttctt caagttcttt caaggagtag tgggtctggt tttcgtacat cancattttc 300

gtccgatgaa gatngctttg aagtctgaag atganattga tccttccatc aagtcntatt 360

ggatgcaatt atcctcngcg tcaaagagga ggnaanaatt tagctggatc cgggttgana 420

a 421

<210> 1660
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-F8

<400> 1660

aacgttaaga atcattgctt ttctcgagaa aataatattt ttaattgaat cgagaaactc 60

ttcaaagttg aattaagaag aatattacct caattgagat ttgagagaca cgcatagaga 120

gattgattat tgcatcgaat caagcttggt ttgttagtaa tggcgggaat agctttagtt 180

ttagatctac tgaagaaatc tcaatcnaag aacactctcc actcatcttc cttctattcc 240

gcctccgccg ccgctgtttc tgctgccgcc tctgctcctt ttgcgtctag gtttctcttc 300

ggttcttttg agcctangag ttgcgtantg tgatgctgct gctgcaanag anatggattn 360

cccttgggtg gctatncngg nagaactgtc ngcggatggt tttgcagcgt tcaacccctt 420

gncgttagtt 430

<210> 1661
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-F9

<400> 1661

agttcatgtc ttgttccttc actgccaagt tcaagtttct ttatggcaaa gatgttttga 60

aaaacaggca taagacattg aggaacttgt ttaaatctgt gaataatctt ttgatagaag 120

atggttttag ttgggatgat actagacaga tggttgttgc tgataactgc gtttgggatg 180

agtatcttaa nattcatcct gattcgagat cttttcggat aaagtctata ccttgttaca 240

aagatctgtg cttggtttac tcaagatgga atgtctgagc acaaagcctg angagagtnt 300

taggtgangg aagaatccaa gacactgatt caggaagatg atgggtacaa cagcaatatg 360

tgaatcgtca acagtcangt ctaact 386

<210> 1662
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-G10

<400> 1662

cttttacgcc gcccggtacc ggtctnaaaa ttcccggggt cgacccacgc gtccnaccac 60

gcgtccgcaa acatggattc gatatagtaa tcagtgatgt tcatatgcct gacatggacg 120

gtttcaagct tcttgagcat gttggtctag agatggactt acctgttatc atgatgtctg 180

cggatgattc aaagagtgtg gttctaaagg gagtaacgca cggtgcggtt gattacctta 240

tcaagcctgt acgtatggag gcacttaaga acatatggca gcatgtagtt aggaagagga 300

gaagtgaatg gagtgtaccg gaacattctg ggagcattga ggagactggg cgaagagaca 360

gcagcagcaa catanaggaa gtggtggtgg tgcaactgtt tctggtggaa angatgccgt 420

ggatgataac tcatcctcgg ttaacgaagg taacaattgg aggagcactt ca 472

<210> 1663
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-G8

<400> 1663

tcctttcgtg aattttctct ctctagggtt tcgatttcaa ttttttccac tgaacccgcg 60

atttgaactg aaccttcacc gtccatcacc atctccggtg gatttcgtag gcatctacgg 120

agcttacttg tttcaaagaa ccttggatgt tgtttccgat tctccgaaag ctctgtgttc 180

tttagtttga tacctcagat attggatgcc cttgatataa cttaggtagc ttcttacaga 240

ggaaggatat gtnaggttaa nttctgttca tttgcccttg gatggttgct acgatgnaac 300

ttaantgctt caccccaacn cganaganga tgacganccg tatgtgagac atctanaagg 360

acgattcttc ncgggatgan cgggatagag tctgctgttg aaatcgctag gacggaaacg 420

tgaaac 426

<210> 1664
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-H8

<400> 1664

ctgtttacgc ctgccangta ccggtccaag aattcccggg tccgacccac gcgtccgnta 60

aaatctctct ctgccaatct catcttcaac ctctctctaa ctctcgtttt cgattctaca 120

atggctgaca agaatattag gatcggaatc aacggattcg gaangaattg gtcgtttggt 180

tgctagagtt gttctccaga gggacnatgt tgagctcgtc gctgtcaang acccccttcat 240

cactactgag tnnatgacct acatgttcaa gtacgacagt gttcacggtc aatggaaaca 300

caatgaactc aagatcaang atgagaagga cccttctctt cggngaagaa gncagtcact 360

gttttcgggc atcaggaacc ctgaggatat cccatgggcc gaangctgga gctgantacn 420

ttgttgagtc tactggntgt cntcactgac aaagacaagg ctgcagctcn acttgaangg 480

tgggtgccaa 490

<210> 1665
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A10

<400> 1665

aagcgtccga tcagcttttt gganaataaa ccaaanaaaa cattcggana ccctaaaatc 60

tccantacaa ntcgnaaatg ncaaanaana gaaagctcga tggagaanaa tctaacgaag 120

ctgaagaacc gtcgcagaag ctgaagcaga cgccggagga ggagcancag cttgtaatta 180

agaatcagga taancaagga nacgttgann aagttgaata cgatgaanta gaggaanagc 240

aagaagaana agtacgaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnngcg acctctggat ctggcaatca anangatgaa 360

tgacgatgac ccaantcaag atctgttgga accattttca aaagggagca agttttgagt 420

ccctc 425

<210> 1666
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-C6

<400> 1666

gggcggacgc gtggggtcca ttactgcagc atttcttcgt atgcagtttc atgattgctt 60

tgtcaggggt tgtgatgctt ccctcttgat cgacccaaga cctggaaggc catcagagaa 120

aagcactgga ccaaatgcaa gcgtgagagg ctacgagatc attgatgagg ctaagagaca 180

gctcgaggct gcatgtcccc gaactgtctc atgcncagac attgtaactc ttgccacaag 240

anactcggtc gcattagctg gtggtccaag gttctcagta ccaacaggaa gacgtgatgg 300

attaaggtca aaccccaatg atgtgaactt acccggacca ncaattccgg gttagcgcat 360

ctatccaatt gtttgcanct caaggtatga ataccaacga tatggttaca cttattg 417

<210> 1667
<211> 522
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-H12

<400> 1667

aatccgggan tcccgggtcn acccacgcgt ccgctccgat catgtcgtcg aagaaagcga 60

agacgaagaa cgaggcgagt agcagccgtg gtggcatcgg cggagagagt atagtcgctg 120

attgtggacg aaataaatca acttgcggtt actgtaaatc ttctacccgc tttagtattt 180

ctcacggttt atgggacaga agagactcac cgttaatgac tatcaagctc ttcttgacag 240

tggatggaga cgatctggct gctatcttta caaacctgag atggagaaag acttgttgcc 300

cttcttatac aatcccgctt gaaaagcaag tgattttgtc ccttctaagg gagcaacaac 360

gagtgcgtag aagaataaga aanggttttg gatggtgaaa ctaagatgcg aaaccngatt 420

gagcaagaca gaaagattca agaantcccc tttccccccc tgaagtttcc agtgtcagnn 480

gaaaaaatcc acttggganc tggctaaaag gagaaaaaaa cc 522

<210> 1668
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-083-Q1-E2-H9

<400> 1668

acgcgtccgc ccacgcgtcc gatttgttcg ccggaatatg ctcccttctc ttaacgtcga 60

tcacctgttt ttctctttcc ctctctctct atttttctca actaggaatc aaccatgaat 120

ctcccatcat tctcacttct ctcttctaat tctttcatgg aattttcagg ttagaagaag 180

attccgggca gattatctgt tgattcgaag aataccgaat acgcgtttga aatttctgaa 240

gaattatggg atacttggac ttggccttgt cgtattccaa ccagccgcag actgttgaag 300

ctccagcgag cggaggaggt ctcagccaga atggaaaatt tagctatgga tatgcaagct 360

ccgctggcaa gagatcatct atggaagact tttttgaaac tagggatcga cggtatcaat 420

ggagaaatag ttggtctatt tggaagtttt tgatgggcca aggtg 465

<210> 1669
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-A10

<400> 1669

atttttgcta tttttattat tttccgtgtt taatttctga ttcagacagg aagattaata 60

ttaancacta gttgtgcaaa ttcacaattt ttttttgtgg atgggaacaa atttctggca 120

cacgtattcc aatccaaatc gacaatatac gcgtcnctga tggatatgtt ttggnttcag 180

tgagaaacag agattgattt tggttttctt taatcatggt ggagccttat gagacacgta 240

acaacggtga agcatcccag atgatcaaga tatcagagtt ataaccatca caanttccag 300

gactaacatc ttcattaatc atcgccattg cntgnatttg anagtgttcc atgtcaggnt 360

cangtaantt caaggtggna tcattcgaca cctgaaggtt ctcaccattt actcatat 418

<210> 1670
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-A12

<400> 1670

attcccnagg tccgacccac gcgtccnaag gacgcgtggg ggaagctccg atctgagttt 60

tttttagcaa tggcgaaaat gattcctanc ctcgtctctc taattcttat cggtcttgtt 120

gcgatcgcct ccgccgcagt tattttcgag gagcgctttg atgatggntg ggagaacaga 180

tgggttaaat ctgagtggna gaaggatgat aacactgctg gggagtggaa gcacactgcg 240

ggaaattggt ctggtgacgc taacgataaa ggtatccagg accagtgaag gactacagat 300

tctacgccat ttcagctgag ttccctgaan ttcagtacca angacaatga ccttagtctt 360

ccaattctca gtcanggcan gaagcaaang gcttgactgc ctgtggnggg ctaacatgaa 420

ngctacta 428

<210> 1671
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-B10

<400> 1671

atttccaacg atttttttctc ttccatggct ttttttcgct gatcggnaaa tcaaacgttt 60

gtttcggttt cgatggtgga agctacntcg aatttgacgc cgactcagag atatgcggcc 120

ggcgcattgt ttgcgatcgc tttgaaccaa gcgcaaatca accagactca gccgctggga 180

accccggcgg cggaagacga cgacngaagn gatgnagagc gaagaagcaa ttgcagtagc 240

ggagattctg tctccgaatg accccaacct ttgggtacac gagacgtctg gccttcttcg 300

ccccgttttc agatgtcttg anattgattc ancggcntgg cttgggtctc gancaaaaca 360

gcttgcctcn tctccggcct aancaccaca tcgggggggng ttcacg 406

<210> 1672
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-B11

<400> 1672

agtacgcctc naaaattcca aggtcgaccc acgcgtccna gaagttcatg tcttgttcct 60

tcactgccaa gttcaanttt ctttatggca aagatgtttt gaaaaacang cataagacat 120

tgaggaactt gtttaaatct gtgaataatc ttttgntaga ngatggnttt aggttgggat 180

gatactagac agatggntgn tgctganaac tgcgtttggg atgagtatct taagattcan 240

cctgantcna gatcttttcg gntaaagtct ataccttgtn acaaaagatc tgtgcctggt 300

ttactcacat ggaatgtctg agcacaanag ctgaggagag tatnagtgag gggagaatcc 360

aagacactga ttcaggaang atgatggggt acaaccagna taagtgaatc cgtcaacaat 420

caagtcctaa ctcaanaagg aagccactnt cacaccgggg ca 462

<210> 1673
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-B2

<400> 1673

ttacgccgnc cgtagccgtc caaaaattca agggtcgacc cacgcgtccg ngaggttttc 60

tctcaagagc tgccaaccat cgttgcccgg agatttaaaa aacctgtgat aaatcgtaac 120

tgagtgagag atatatacac atatatatac acagagggac aaggaaagag attgggatat 180

gcgagtgcgc atcggttctg tcggaacggc taactcgctt gacctagggt ttcgtcttcc 240

ttgtgcttcg tggagttttt cgaatgggag aaagaacctt tttgctttct aaccgtgttc 300

tatatttttg ggagttgtca taagtaaagc agtatgacgc ttgaagattt ctttacccta 360

acagaaataa aagatggact cacggtcact tctcgtgttg aagaacttgt gtcctgttat 420

gcagaagtaa taaaggattc agttttgaag aatagtggng atgcntttaa gacaatggga 480

ctgct 485

<210> 1674
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-B3

<400> 1674

tttacgccgt gccgtagccg tccanaaatt ccagggtcga cccacgcgtc cganggacgc 60

ntccgcccac gcgtccggcg atcgacaagc ttccacttct tctctttctc tccatactcn 120

tctgcctcaa tcgccctgtt cttagcgaca ccgatgaaga ggacattctt ctcacaggaa 180

tcaanagcta cagaacaaca cagaatctaa caatcttaag caagaacgaa nacgcagaat 240

gcctagctga cgaaatcgca gaccaattca agaacaaacc cttgtagaac gacactggct 300

cagccacagt acctggaact gagccacagt tcgcaaacta ccctcaagat tctagcanaa 360

atgcnacttt gaanggtcnc agncacgaga gacgggctcg attatgcctg catgtgttcc 420

tccgtttaga atcaaactcg tcctcanaaa cntcaccaag tacaatactc aatgagtttg 480

aagattccca g 491

<210> 1675
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-B6

<400> 1675

ctgcattcct cgcaatgcat tggattacga gattctctgc tttcttctcc gccgcattag 60

ccatgattct cctttctcct tcgctccaat cctttttctcc ggcggcagct atccgatcat 120

ctcaccccta cgccgacgaa ttcaaacccc aacaaaactc cgattactcc tccttcagag 180

aatctccaat gttccgtaac gccgaacaat gcagatcttc cggcgaagat tccggggtct 240

gtaaccctaa tctcgtcnac gtagccatca ctctcgacat cgattacctc cgtggntcaa 300

tcgnagccgt caaatcgatt ctccangcac tcaatgtgcc tcaaaancgg tcttcntcca 360

gttcctcngt gntcgtccga gtctcnaaaa cctaggaacc ctgngtcggt cta 413

<210> 1676
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-B7

<400> 1676

acgccgccag taacggtcaa gaattcccgg ggccgaccaa cgtccgatct tccgttgctt 60

tttttttca atccgccgcc acttttcgtt tctcgtagcg ttaaaatggc ggtatcgtac 120

aatgcattag ctcagtcttt agcgagaagt agctgcttca tccccaaacc ttattccttt 180

agagatacta agctgagaag cagatccaat gtcgtattcg cgtgcaatga taataagaac 240

attgctcttc aagctaaggt agataacttg ttggaccgca ttaaatggga tgacaaagga 300

ttagctgtgg caatagcaca aaacgttgat acgggagcag tattgatgca aggctttgtt 360

aatagggagg ccctctccac aaccatcagt tctcggaaag ctacattctt tagtcgatca 420

aggatctacc ttatgggact aagggagaga catccaataa cttcatcant att 473

<210> 1677
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-B9

<400> 1677

actgaaactg aaactgaaac acttctctct ctctctcttt ctcgcttcca cgaatcgaga 60

gttctacaaa ttcgcttcct agggtttctc aattcttcta atttcttcat ttctatggcg 120

agtcaatgag cgaaatggcg gctagctccg caatctctct tctcgatatc aaactccgac 180

gattcggcgt tggcgcaagt aaccatgaat tgcgcctaac taagtggttc aaaggtgatc 240

aagccggagc tccgacgaga agattcacct gcttcgcaga tatgttggca ccgattcgcc 300

gctctgagaa gtcagaggaa cggcgttttg atcagaagat gagtgctcac ggtgccggga 360

tcaaaacttc ttcctctgca gtgccatttt gcntctccta aatctcgatt tt 412

<210> 1678
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-084-Q1-E1-C10

<400> 1678

agaagaaaga tagagaaaaa aaatgggagg caaaggtgtg atgatggtgg cgatactttg 60

cctttgggca ctctctgcaa catctgaagc agtaacagag gctgagccag gtttgatgat 120

gaacttctac aaggacacgt gtcctcaggc cgaagacatc gtccgtgaac aagtcaaact 180

cctctacaaa cgccacaaga acaccgcttt ctcttggctc cgtaacatct tccannactg 240

cgccgttgag tcatgtgatg cnntcgcttt tgctggnttc cagggagacn gagagctagg 300

agagaaagaa cacgacagga gcttcgggac ctacaaactt naggtacatc caaggaagat 360

naaaggaagc tctccagacn ggaagtgtcc ctgcgtgttt gtccncatgt tctggaca 418

<210> 1679
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-084-Q1-E1-C11

<400> 1679

ttttccgttc tcattccctc tcttctccgc atctctcact ctctctgtgt atgtgtgatg 60

tcatcgattg tgaatcgagc tagttcagct tctcttccta atttcctcgc atggcgtgct 120

ctggggtttc gcaccatctg ctccggccgc cttggtttcg ctccgtctgt tccagactcg 180

ccggtctccg caggaaccaa aattttggaa tcatttaagg aggaattcga agtcggatcc 240

cgcgtggtct cgtttgagac tggaaaaatc gctcgctttg ctaatggttc aagttgttct 300

cggcatggac gagaccaaag ttctctctac tgttacttgt gctaagaccg actcgcctcg 360

gggacttctt acctctcact gttgactatc aagagaagca atacgctcag 410

<210> 1680
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-G3

<400> 1680

gttcgccttn acgtacggct ccggaatccn aggtcgaccc acgcgtccgt ctagctcttc 60

gatttcacgt cactcttcac tcaataaaaa agctactgct tcaaagctct acttcttcaa 120

tttactctca ttcgtttgcg ttgatgtagc aaaacaaaaa ccaaaatggt tcccgtctcg 180

ttctgcttct tctttctcct tctcttgctc tctgctggag agagttcatc gcaattagtt 240

tctggtccac acatcaccga tgttaacata ctcttacctc ccaagatgaa gaatccggtt 300

gagtatcgcc ttcaaggaag tgatggctgc ttcaaatggt catgggatca tcatgatatt 360

ctaacagtca cacctgagtt taattcgagc agtcattgtt cgaccaacgc gcgtcctcaa 420

atnaattcnc cgtanantgg gtanaaagga naacggcaat ttatgccact gatatacnan 480

actgggaagg gtgattccct gcnagggcct taattgg 517

<210> 1681
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-E7

<400> 1681

acgcgtccgc tttttccgac aaggttcaag atcgattaaa cattacatgg aggagattca 60

ctagaaagaa aggaaaaaaa tctctttgtc tttgcagatg cgacacgcaa aacgacgatt 120

ctgatctcgc ttgtctgatt tcaaaaacaa tgagaagata gttctgatta tataacacac 180

aaaccctact tcattccttc atcatcgtct ccaatcatta cccaaagatc cgtctttttc 240

tttacttcat gtcgaaagca aacgtacaaa gtgtgttncn gctttcgccg gaggttccgt 300

tacactgcat cggagggcac cgcgtgagat taaagacaat ttccgaaaag tactcagaga 360

atgggagtta tgaccgttga ttaatcncac aggttccnga tncgaggttc agaancaaga 420

taagccacca gagaagatgc acaagtcaat tatcaattcc gnatcctccn ctcctcatcg 480

ta 482

<210> 1682
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-E9

<400> 1682

acgcgtccgg aaaggacgaa gaagagaaga agaagaacct tacaattgct tttgtaaata 60

ttgtaggtag tttaaggacg tcacttccta catacatgga tttatgtgga actcagatgc 120

tgcgcctctc atcgcctcat ttcaaaaccc ttcatttggt gaggcatgca caaggagtcc 180

acaatatagc attagaagag aagggagaga aacctgaatc agaaaagctt tttgacgccc 240

acctttctcc aaagggtttg caacaggttt cggaaaggcg caaccaaatc cttgaatcag 300

gattacttaa cactgtcgag ttagtgataa cctctccgct gtgcagagca atggaaactt 360

caataggaat atttagggga caaggatatg taaatatatc cgaagacttt gcaaaagcta 420

acaacttccc tccaattgta gcacntt 447

<210> 1683
<211> 558
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-F1

<400> 1683

gtnccctgtt cgtaccgccc cggaattccc gaatcgaccc acgcgtccgc ggacgcgtgg 60

gcggacgcgt gggtnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnggt gatcagatct cgtgccgacg aaaacgtgcg tctaaagcaa 180

tgctgttcgc actctgctat cttcaattcc tcgatttatc ttgaactgcg attgtttgtt 240

gttgtttcga tttcgttggg ggtaattggg tgaattagag aagtgaatga gaaattcgcc 300

ctgcgattct gtcctctgtc cggtgatcga attgccggga gcaaaaacaa ggtccggatt 360

ccaagccttc ccccaanttt gnngtaatgg tccaatgggg gccnaatgcn gnctggatcc 420

tgaaattcca atttccctcc ccccaaatca aggtttnaan ttcnangggt tcctccnaaa 480

ttcccggggg ttttnantcc ggnggttcaa atngaantca ncgaattccn ccaaggataa 540

tccccaaaaa cggaataa 558

<210> 1684
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-F10

<400> 1684

nctctctcga tttgaagaga gaaaattcgt tcgatttcgt tttctcttct tcttttggat 60

tttcccggaa aattttggaa tcggtgagtc tctatcgatt actggtcaac catgaatatc 120

tttagatttg ctggcgatat gagtcacttg atcagtgtct taatccttct tctcaaaatc 180

tacgcgacga aatcttgcgc tggaatctct ctcaagactc aagagctcta tgcgcttgtg 240

ttcttgactc ggtacttgga tctgtttacg gattatgtat ctctgtacaa cagcatcatg 300

aagattgtcn tcattgccag ctctttggct atcgtntggt gtatgcgtag gcatccacnt 360

gtgaggaggt canacgataa aggacctgga cacatttncg tca 403

<210> 1685
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-083-Q1-E2-F11

<400> 1685

acgcgtccga tactctcttt tgatggctgg aggagagaaa agaagaggac ttagtaaatc 60

ttgtgctctt cccatagtga ttgctgggat agagagatat gcattcaaag gagttgcatc 120

aaacttagtg acatatctaa ctgatgtagt gaagatgagc aattcaagag cagccacgac 180

tgtgaacact tggagtggct tcactttcat gttgcctctc ttctctgctc cttttgccga 240

ttcttattgg gacagattct tcaccatcct tgcttcttct tctctctact ttgtgggtct 300

agtgggattg acatttacgg catttgctgg gtcacgttcg actacaaaaa caatctctct 360

ttacttcctc tacacttcac tttccctcgt cgctctaggc cttggcgtct taaacccatc 420

tctacaagcc tttggtgctg accagctcga ctacgacc 458

<210> 1686
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-F12

<400> 1686

acgcgtccgc cttcctcgcc aatcttcatc ttcctcatgt tttctctaat tctccatgga 60

agaaagtctg tggaattaca gaaatggcgt aatttaagag ttacagtgag cattgtgcaa 120

aatgcatttc cttttaccac caaatcgttc tcttctacaa tagctaaaga ttcgagtcca 180

aagggaagta ctttcacagt ctcttatctc gttgaatcat tgggtttgac taaaaaactt 240

gcagaaacaa tctcaaagaa agtcaccttc gaagacaaga tgctgagaaa tctcttcgtc 300

caaagcttca gtttttaaag tctagaggag cttcaagctc tgaggtcata gagattgttt 360

cgaatgttcc aacaatcttg gataagaaag agggaaagaa aggtaacaga attcgaaata 420

tatcggtttt gagagaattg ggagtacctc agaagttgtt gttttcattg cttan 475

<210> 1687
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-F3

<400> 1687

acgcgtccgc cttcccgtcg tcggaattac ttcgccggcg ctcatcaccc acaaaaatca 60

cgccaatcca aagatacaga gacataatca atctacctcc gagaccactg tttcatggac 120

ttctcgcatc aatctcctca cgcgcaatgg tcgattagcg gaggcagcga aggaattctc 180

cgatatgaca ctcgccggcg tagagcctaa ccacatcact ttcatagctc tactctccgg 240

gtgtggtgat tttacctccg gaagtgaagc cttgggcgat ttgcttcatg ggtatgcttg 300

taaacttggt cttgatagaa accatgtcat ggttggcacc gcaattatcg gcatgtactc 360

caaacgcggg cgttttaaga aaggctanat tgggttttga ttacatggga agataaaaaa 420

ttcgggtact tggaatacna tgatncaatg gggtacatga gaaattggtc aagtncaata 480

a 481

<210> 1688
<211> 542
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-F4

<400> 1688

ctggttccct gttncgtacg gccccggaat tcccangtcg acccacgcgt ccgctttctt 60

tctntcttgt tgggtctctc ttacttcttt cttattcatc taaaacaatt tcgatccatt 120

tacacataaa tatatgtaac tggccgtaga agaaacacat tgaaggaaga nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnntgc ggacatttcc agaggcagtt ttccaaaggg ctttgtcttt 300

ggaactgctt cttcggcttt tcagcatgaa ggagcggtga aggcagaagg cagangtccc 360

tacgatatgg gacacatttt cccacacttt tggtaaaatc accgatttta gcaatgctga 420

tgtccccggt tgatnagtan catcgttacc aaggaaanat gtacaactta tgaagaaata 480

tgggnaatgg gncncttana naatttccca ttcntgggcc ccgcattttt ccaaaagggg 540

gt 542

<210> 1689
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-F8

<400> 1689

acgcgtccgc ccacgcgtcc gcggacgcgt gggttcgact tttcctctct ctcttatata 60

aattatatat tttgctttgg ttttttttt ttcaccggat cgatcgagaa gagagaaaag 120

ttcatcttct tcttgttctg attgtttgac aagttttacg acaatggcgg tttacggcga 180

gaaagaacat tggtggctcc gcaacaagga agatcgttga taaatacatg aaagaagcaa 240

agagtttaat agcgagtcaa gatcaaaacg actgaaatca gctctaaatc ttcnggaatc 300

tgcaccctcn gtancncctc gttacgaact ccgctctcga actcaaagnc aagttccctt 360

cntaactccc gtcgatncaa aagacttcgc ccgataggct tcaaggatta acatcccaag 420

nccttaaatt aaccgggngg nngggaaana tcccgggnac cgggttcatc ngnagctttc 480

ctttaacnca atccttc 497

<210> 1690
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-083-Q1-E2-F9

<400> 1690

acgcgtccga acaaagagag agagagagag agtgttatgt tatgtcttta ttgtcaatta 60

gtaattttct tcgaattaga tgttgtttct ccgtcgaatc gccgtcgtct tctttgtctt 120

cacctctttc tccgccgctc agaactccac gtgtcctctg gacttttccg tccttgaacc 180

gttccggcgt ccgaaacccg atggcgccac cacctgccag tacctcctcc aagggctacg 240

cctcctctac tctcaccatc tccgtcagac gggttccttt ctcccgccac ctgagtctgc 300

tgcttcttgc tgggctgctc tccagtcttc cgtcgccggt ttcctccctc gctttgacgt 360

ccgatccacc tgcggtttcc agacgccgtg gatttcgcag gggtgcatgg acatcaccac 420

caggtctcaa ttcgaatccc ttatcctaac tcctccctc 459

<210> 1691
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-083-Q1-E2-G11

<400> 1691

acgcgtccgg aaaaagttta atttgtctct ttctctattt atctccggcg tcaatttcac 60

ggcggctaca cgacggttat cgatgtcatt gactgtaccg gagttcgatt tcagattgac 120

gccacagttt ggtttctcac agtcaccgat cggggagcgt aatttcgcgg atgttgataa 180

tctggagaac tgtattaagt atttgaatca gagcttagtc acctctggat tctctgcttc 240

gcttgacctc ttcgctaccg atcctgtttc gattgctaga acttgcaatt gcgtatacgc 300

tttgattcaa cagaggcaac gagatgtgga atttagagaa tctgctaatg atcagagaca 360

acgactttta tccgatatgg cgagactcga agcaaaagtt gaaaggcttg agactcaatt 420

gcaagctaaa gaaagggaac ttggttcggt gacaagaacg 460

<210> 1692
<211> 513
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-G12

<400> 1692

cctggccgca aaaggtccgg aantcncggg tcgacncacg cgtcnnaaan gantcgagan 60

aacgcacacc gaagaaaaca cacaagactc cattattctc ctgcttcttc gtctcttcaa 120

ttattttctc tgagactagc tttgattcan ccatggctaa tgcagcatca ggaatggcag 180

tccatgatga ctgcaagctg aaatttatgg aattgaagac gaaaaggaca caccgtttca 240

tcatttacaa gattgaggag ctgcagaaac aagtgattgt tgagaaaatc ggtgaaccgg 300

gtcaaaccca tgaggacctt gctgcaagtc ttccagctga tgaatgccgc tatgccattt 360

tcgattttga ttttgtcagt tctgagggtg tcccaaggag caggattttt ttcgtggcat 420

ggtctccgga cacagcanga gtgagaagca agatgatcta tgcgagctcc aaggacaagt 480

tcaagagana actagacggg antcaggtcc aag 513

<210> 1693
<211> 542
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-G2

<400> 1693

ntggttcgcc tgttcgtacg gccccggaat tcccgaagtc gacccacgcg tccgcggacg 60

cgtggggttt tgcctttagc atctccgagt aaggaatcca ggtccaaagc ctcttctctt 120

cctcctcctc gcttccttct cacgcaacct tggatccacc gcagctatga agatcaccgc 180

cttgctcgtt ctcaagtgcg ctcccgaagc ttctgatccc gtcatcctct ccaacgcttc 240

ggacgtctct cacttcggtt atttccagcg atctagcgtc aaggagttcg tcgtctttgt 300

cggtcgcact gtcgctagcc gaacccctcc ttcccaacgc cagtctgttc aacacgaaga 360

gtacaangtt cacgcttaca atagaaatgg cctttgcgcg gtgggtttca tggacgatca 420

ttaccctggt tcgaagtgct ttctctcctt ctcaatcaag tcctagatga gtacaagaag 480

aattttgggt gagtcatgga nggccggcaa aaagaaagac tccaatcaag ccttgggcaa 540

ta 542

<210> 1694
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-E6

<400> 1694

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tggatgtttt gggcaagaaa cagagagaaa cacgttaatt tgagagtttg tcattgaata 120

tttggtttgc aatggaaaga gattttctgg gtttgagcga caagcagtat ctaagtaata 180

acgttaagca tgaggttaac gatgatgctg tcgaagaacg agggttaagt acgaaggcag 240

ctagagaatg ggggaagtca aaggtttttg ctacttcaag tttcatgcct tcttcagatt 300

tccaggaggc taaggcgttt ccgggtgcat accagtgggg atcagtttct gcggccaatg 360

tttccgcaga tgccaatttg gtggtgcgtt caaaacgccg acgcccgctt ttacnaaggc 420

ggtcaattcc ctttaccaac tcaaccttcc ccttgttcaa cnaatggctt ccccccggat 480

tatccc 486

<210> 1695
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-A6

<400> 1695

tacaatgctt atggtgtgtt taaagagaaa gagatgtatg agagagtgtt tggtgatgaa 60

gagaagctta acaagtttct gagatggaga gttcaggttt tgganagagg tgttaaaatg 120

cttcatttta aacctggtgg tgttaattcc attantcaag ttacagatct taangatatg 180

ccctaagang agagcttaga gttgcttcta aatcagatcc tctctcnntt ttcaagataa 240

ttaccctgan nttggntgct actaagatat tcacaanacg tgccttggta cttcagtggt 300

gatctancan agttcagccc attcctgact cagagaacac cgancaagtt tgtgatgtcc 360

aaacgaaggc aatgcagcca agaaacactc ctacaanttc cattancgcc acaagatatt 420

ccgggtgcca tacgggggg 439

<210> 1696
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-B6

<400> 1696

acgcgtccgc ccacgcgtcc gatttggtgt acctgttcag ttacagaggt tctggatttg 60

ggcaaagaga caaaaccata cctatcgtcc caatcgcccc cttacgcctc aagaggaatt 120

acaaccggtt ggacaaataa gggaagcatc taataaggca aacactgcag aactcaagct 180

ttttttggaa gtagagcacc tggatttacg tcctattcct cctcctgaaa aatcaaaaga 240

agatattctt ctttttcttca agctttatga ccccgagaag gcagtattaa gctatgctgg 300

caggctgatg ggtgaaaagt tccagtaagc ctatggatat aactggaaaa ctgaaatgaa 360

atggttgggc tttgctcctg gatgaagaaa tagaactttt gaggaaatca ngtttgnacc 420

ttgtgttatg tgcgaacact tggataagaa aactcaatca gattgt 466

<210> 1697
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-B7

<400> 1697

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tgattcgatt caagccaaga tccacgtata aagatatgtt catgcgtaga ggtttggtat 120

acaacaatat atacatataa tagtttgtcg ttatgcctgg ctccctgtat gccacgagtg 180

gataccgatt ttggttttaa aatcggctgc cggtggcgta caaggagtca agcatgacca 240

gaagcatatg gtaactcaat tgcatctaca actaaatatg aaatatctag ttatgtatat 300

ggtttgtgtt ctataagatg ttttcttcga attttgattt ttgtgttcca tttgaataag 360

caaacanaan taanaccaag ttttgtagtt ttttgctttc tttctgattt ggtccagtgc 420

nttgattcag gttttgagtt gaattccttt aaattcatat tgnttt 466

<210> 1698
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-C11

<400> 1698

actggntcgc ctggccgtaa aggtccggaa ttcccgggtc gacccacgcg tccgaacatg 60

gggtacgacg gctccaggtt tgccttacgt agacgaggcg ataactaatg ctggaaactg 120

gctcattggg ggtgatcttg aggttcttga gccagtgaag tacaatgatg ggcttgatcg 180

tttcaggctt tcgcctgctg agttacgtaa agagttggag aagcgtaatg cggatgcggt 240

gtttgctttc cagctgagga atcctgttca taatggtcat gctcttctta tgactgatac 300

tcgtaggaga cttcttgana tgggttacaa aaaccctatt cntttgcttc atccgttagg 360

tgggtttaca aaaggctgat gatgttcctt taagatttgg aggatgaaag caacacgaga 420

aggttctaag aggatggtgg tccncaatcc ggaaaactaa aagtggtttc natattcccc 480

gtcaccctat gcaattaccn cggg 504

<210> 1699
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-C12

<400> 1699

acgcgtccgc tcntcgtctc aacatttang gtttcagaga tcggntgatt ttcacatcca 60

caagtatggc gactcaaatc ancaagaaga gaaagtttgt agcggatggt gtattctacg 120

ctgaattgaa tgaggttctc acaagagagc tagcagagga tggttactct ggtgttgagg 180

ttagggttac tccaatgagg actgagatta tcatcangag ctactcgtac tcagaatgtt 240

cttggtgaga aggggaggag aattacggaa ttgacatctc ttgtccanaa gagattcaag 300

tttccaantt gacagtgttg agctccaatg ctgagaangt taacaacaan aggtcctctg 360

tgccaattgc tcaagcctga gtctctaagg ttacangctt tccccggtgg tccttgctgg 420

ttcgcaaggg ccctgttanc ggtgttttga ngatttggta 460

<210> 1700
<211> 485
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-C3

<400> 1700

ggaattcccg angtcgaccc acgcgtccgg ttttgagaat ttgacaaaaa tttgtttatg 60

taatcttagt tttcgctgat tttgagtaag ttatcgacat ggatattgat gtcggaccag 120

ttgatccatc tgtcctatac gagcaagacc tccatgtttc ttctgctgtt tgggaaggac 180

aggaacgagg tctacttcgt tgtcaagaac acacttcatt gctacatcaa tggaaactca 240

ctgatgaaca aattaacctc gtggacaaag ctggtttcgg ttactttcgc aaaatcggtc 300

caatgagttt aaacaattca ctgatctctg cacttgttga gcgatggaga agagaaacca 360

atacttttca tcttccttta cgagaaatga ctataacctt agacgaagtt gctttagtac 420

ttggacttga gattgatgga gattccaatg gttggttcca aanttggtga tgaaggttgc 480

tatgn 485

<210> 1701
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-C7

<400> 1701

tcttgtccgt ttcatcttca cattggcaac atctctcttg attggtacag tcttctggca 60

aatcggaggt aacaggtcga acgcagggga tctaacaatg gtgataggag cattgtatgc 120

cgcgattatc ttcgtgggaa tcaacaactg ttcaacagta caaccgatgg ttgcagtgga 180

aagaacagtg ttctacagag aaagagcagc aggaatgtac tcagccatgc catatgccat 240

ctctcaagtc acttgtgagc ttccctatgt ccttattcaa accgtttact actcaancat 300

ggcgtacacg aaaagttcnt ctgggttcgt cntcgttaag ctacttctca ttcctctact 360

gggacttact acngcatgat gactgtttcc ctcaacacca agancntcna agtcgcttcg 420

atttttcgcc tcaa 434

<210> 1702

<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-C8

<400> 1702

acgacaaaga aggacaccca gtttgttaca atgcttatgg tgtgtttaaa gagaaagaga 60

tgtatgagag agtgtttggt gatgaanaga agcttaacan gtttctgaga tggagagttc 120

aggttttgga gagaggtgtt aaaatgcttc attttaaacc tggtggtgtt aattccatta 180

ttcaagttac agatcttaaa gatatgccta agagagagct tagagttgct tctaatcaga 240

tcctctctct ttttcaagat aattaccctg aattggttgc tactaagata ttcataaacg 300

tgccttggta cttcagtgtg atctactcaa tgttcagccc attcctgact cagagaaaca 360

nagagcaagt ttgtgatgtc caangaacgg caatgcagna gaaacactcc tacaagttca 420

ttangcca 428

<210> 1703
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-D10

<400> 1703

taactggttc gcctggccgt aanggtccgg aaattcccgg gtcgacccac gcgtccggtt 60

ttgaaagtgt tcctgaaagc tccattacaa aactctcgag gtctgagatt aagcaggaat 120

tagtgaacgc tcaaagaaag cacttggaac aaatgatact gcccaatgtt ttggaactag 180

aggaggttga tccctttttc gatcgtgact cagtggattt ttctctacgc atcaaaaaac 240

gccttgagga atcaaaaaag ctgcagagag atcttcagaa tcgtatcaga aaacgtatga 300

aaaantttgg tgaagaaaag ctttttgttc aaaagactcc agaaggtgaa nctgtcaggg 360

gatttcctga agcagaggtn aantggatgt ttggananaa agaggtggtt gttccaaaag 420

ctatccagct ccatctacgc ccatggttgg aaaaangtgg cagggaacaa accacaagcc 480

gatttaaaac ataaactttg 500

<210> 1704
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-D4

<400> 1704

angcgtcnng gtggattcat naacaacttc anngatantt anaatcttcc ttctccttct 60

gacgattgaa ttacatcttc ttctgatagc tgttctgatt tttttctgta nacaaagtan 120

attcaaagtg gacaaacatc ggtattttaa tctcctctcg ataatgaagt gtttcttgtt 180

ctctggtggg gataagagag gggaacagaa gacccctatt tcggtttcat tgacctctat 240

cttctctgac cgcgaaataa accgaagcgg gtcagagttc aactctcgtg atgtctctgg 300

gacgagcaca ngaatcatcc atggggagga agaactcgta ccctccggtg tctactagag 360

caagtaatct caagagagtt cagcattact gatctcaagt ctgcaacaaa ggaactttaa 420

gccgatctgt tatgattggn gaangcggtt tcnggtttgt gtcntcaggg ggcac 475

<210> 1705
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-D6

<400> 1705

acgcgtccga tcannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn ccaccaaggc aacagaggag tttgtccttg ttgtttaaga 120

gataaactct ctcgattacc taatactacg tcgtattaca tcgttcacag annnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngg cggtgaagga tcatcggaga 240

gctggttcga tgtcgatgtc tttcgctgtt agggaagctt taaatggtaa tctgatcgaa 300

gctttangtg gaggattaan gaaaagcaga tctatggctc atgttcccaa ggattatatt 360

gttagggatt tgacnaagaa gaagacggag aaattgaaat ctacgacggt taagaagaag 420

actgggtttt ggactaagtt gcttcatcnt aaagggaaag gcggtgg 467

<210> 1706
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-D7

<400> 1706

acgcgtccga gaaaagaaaa aattgcaaag agaggaagaa caaagaaact tgaatggaga 60

agagaaacga gagacaagtg attctttttc ctctaccatt acaaggttgc ataaacccta 120

tgcttcagct agcaaagatc ctttactcaa gaggtttttc gatcaccatc atccacacgc 180

gcttcaacgc gcccaaatct tcagaccatc ctctcttcac tttcttacaa atccgcgacg 240

gcttgtctga atctcagact caatctcgtg atcttttgct tcaactcacg cttctcaaca 300

acaattgtca gatcccattt cgagagtgtt tggctaaact cattaaacct agttcaagat 360

tcaggaacag aggatangaa aattagctgt gtgatcgatg attccggttg ggttttcaca 420

caatccgtgg ccggngagtt ttaantcttc ctcgatttgg tccctcgggt g 471

<210> 1707
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-E2

<400> 1707

acgcctccgg ngaacatggn gaaccacggc tcgtgggctt ccttatccng aanaagcact 60

caccaaagct ggaaactggt tgattggagg tgatttacaa gttttggagc cnatcaanta 120

caatgatggt ttataccggt ttcgtttatc tccgtcgcag ctgcgggagg agtttataan 180

gcgcggtgcg gacncggttt tcgcgttcca gcttatgaac ccggtgcata anggtcatgc 240

gcttcttatg acggatacnc gtacaagact tcttgagatg ggttanaaaa accctgtctt 300

gttgttgaat ccacttggng ggtttacgaa ggctgatgat gtacctctca gctggcgtat 360

ganacagcac nanaangtgt tggaggatgg ngtattggat ccanacanca ccgtantctc 420

caacttccca tctccgaatg ctatacgctg gcccaanctt a 461

<210> 1708
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-H7

<400> 1708

acgcgtccgn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntgtc ttgctccgtc gccgtatgta 120

attctccggt gttttcaccg tcgtcttctc tattctgcaa caaatcttcg attctctcgt 180

caccgcaaga atctctttct ctaacgcttt ctcatcgcaa acctcagacc tcttctcctt 240

cctctccatc caccaccgtt tcttctccta aatctccatt tcgtctccgt ttccagaaac 300

ctccgtccgg attcgctcct gggtccatta nctttttggat ctgaatctgt ttctgcatcc 360

tctcctccgg gaggtgtttt aaagaggaaa cgacctacaa ggcttgatat agcgattggg 420

tgttgcctgg ctttgtaant ccgaatttct tcattcggcc cgctggtggg ctggcna 477

<210> 1709
<211> 508
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-G10

<400> 1709

ccggnccgga atccgggatt tcggattcaa ntctcanatc tagctcaacc atggcgttgc 60

tcgtcgagaa gacctcaagt ggccgtgaat acaaggtcaa agacatgtct caagccgatt 120

tcggtcgtct cgaactcgag ctcgccgaag ttgagatgcc tggactcatg gcttgtcgta 180

ccgaattcgg accttctcaa gccattcaaa ggcgctagaa tcaccggatc tcttcacatg 240

accatccaaa ccgccgtact catcgaaacc ctaactgctc tcggtgctga agtcagatgg 300

tgttcctgca acatcttttc cactcaagac cacgccgccg cagccatcgc tcgtgactcc 360

gccgctgttt tcgcctggaa aggtgagact cctcangagt actggtggtg ttaccgaacg 420

tgctcctana ntggggtcca aagttggtgg tcctgattct gaatggttga tgaatggtgg 480

tgacgctact ccttttgant caagaagg 508

<210> 1710
<211> 522
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-G2

<400> 1710

cttttcgtac ggcctccgga attcccgaaa gtcgacccac gcctccgcac acacacantt 60

gtcgaaatct taacaccaat cccaaatcag aaaaatcaaa acttttttatt ttantttatc 120

aanatggcgc ttatgaatgg aagcatgaat ctatcatcgg tcaaatcatc gatgatcaac 180

caccgtcaac caaacttctc ctccgccgtc tccagaccca cttctttccg gatctccgcc 240

gtgcaaaccg acccaaaaac accagctgct tcatcggcgt cggcggcgac gacgactccg 300

gcaacgttga cgaagcccgt tggagttaat gtgggtaaag gaaaatgggc accaagagag 360

ttggaggacn aagaaagctt tacaagcaac cgggactatc cagatttagc tgcgcttgaa 420

gctgtgctag aagacgatcg aaagcttttc cctccgatng tgttcgccgn gagaactaga 480

ttgcntgagg aacgattagg acaagcagcc gatggggtga ag 522

<210> 1711
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-082-Q1-E2-G3

<400> 1711

tggttccctg tacgtaccgc tccggaattc ccaggtcgac ccacgcgtcc gtggaagtgg 60

aagcccattt gatcctgttg tgtacgatgg caaaacctac ttgcctggcc aggcaaacaa 120

ttgctacatt ttccctggtc tgggtcttgg tttgatcatg tctggggcaa ttcgtgtccg 180

tgatgacatg ctcctcgcag cttctgaagc attggccgca caagtgacag aagagcatta 240

cgccaatggt ctgatctacc cgccattctc aaacatcaga gagatctctg ctaacattgc 300

agcctgtgtc gccgccaaaa cctatgacct cggattggcg tcgaacctgc cacgtgcaaa 360

ggatcttgtc aagtttgcag agaacagcat gtacagccct gtgtacagaa actaacgtta 420

aaaaagtttt ggttaagaaa cctgcagatt atactaatca caacccctg ataatttcct 480

aaaggcttgt aattaaagtt tttttgtttg gttggttggt 520

<210> 1712
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-G4

<400> 1712

angcntccgg atntctctca caagatttct gaaaatggat atataatctc actgatttgt 60

tnctttttt gttcttgttt cgttttctat atgtttatgg atgagttgta gtttccatct 120

cccagccgga tatagaaaga agaaacagag gaaatttgtt cataaaggag gtacatatat 180

acacatacaa gtctctgtga aatatgacat ctcagctaaa acgaacttta accaagagat 240

acggtgttct tgaactgtgg gagatcatag tgattgctct ctttgcagcc ttcatagtaa 300

tccttgtcct ttcagtttgg ctcagcttcc gtaaaaagtc caaaagatct aatgctacaa 360

cgcttcctgt aactcaaagc cctcgcttta ccgaagaaaa taaaagaaat aagtgttgat 420

catggttcat ctaacaacaa tggtacttct taacaaaact cctgatgaga aaattc 476

<210> 1713
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-G6

<400> 1713

actggttcgc ctggccgtac aggtccgana ttcccgggtn gacccacgcg tccgctcnca 60

cctacaccac acctaaccaa acccccctacg attcacacag agagagannn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnncatg atcgatctca tggcagcaat catcaaagga 240

gagcctgtaa ttgtctccga cccagctaat gcctccgctt acgagtccgt agctgctgaa 300

ttatcctcta tgcttataga gaatcgtcaa ttcgccatga ttgttaccac ttccattgct 360

gttcttattg gttgcatcgt tatgctcgtt tggaggagat ccggttctgg gaattcanaa 420

cgtgtcgagg cctcttaagc ctttgggtta ttaagcctcg tgaggaagag attgatgatg 480

ggcgtaagaa agttaccaat ctttttcggg tacacaaa 518

<210> 1714
<211> 519
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-G8

<400> 1714

aactgttcgc ctggcccgta caagtccgga nattcccggg tcgacccacg cgtccgcgga 60

cgcgtgggct ctctaacttg aaagttgttt cctttttttg aatctgagct ggttttggaa 120

ttttggtgtc aagatttgga atttgaatct gtagtaagat tcaggtttag tgggggaggg 180

aacaagttgg aagcttttgc tagttttgtc aaaggtgtca ctaaagtact aactatcaga 240

aaacattttc agccagaagc ttggtgatgt atcttcagat tttcaacaac ccatctcatg 300

gcttagctca tttatgctac tctagtcggg tttcgtgtag ggtaagactg agtcgtgtcc 360

ttgccatgcc accgtcttca gtcctcttgc atatggacga aagcaatgat cttcccaagc 420

ccaagaaggg tttttgtctg aggtgaagat tcgagaanca gtttaaacag tcctcctgna 480

gattctttgc ttangcaagg ccaacacagt cnggaatta 519

<210> 1715
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-G9

<400> 1715

angttccctg gcctaccggt ccggaattcc cggatcgacc cacgcgtccg ctttgtctct 60

gtcgcaatct caaccatatg gagaaagaca tggcaatgat gggagacaaa ctgatactga 120

gaggcttgaa attttatggt ttccatggag ctattcctga agagaagacg cttggccaga 180

tgtttatgct tgacatcgat gcttggatgt gtctcaaaaa ggctggtcta tcagacaact 240

tagctgattc tgtcagctat gtcgacattt acaagttagt tttaattact aatatgagag 300

gatttgctag agatagttaa ctaaattctc ccctttactc ttgaccaatc catttttatt 360

gtgacctcat ccaaaaatga caagctttgc ttatataaca atttgtcatc actatctgtg 420

tcactgagtg atgcattgat tataggatat gaaatgattc cttgagaatg aagatttgaa 480

aaaggtgtgt gtagttaagt ataat 505

<210> 1716
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-H1

<400> 1716

acgcgtccgc attttcatgt ctcttcctan caaacgctct actttctccg ccgcttctgc 60

ctccgacgac tcttcttact cttctcctcc gatgaaaaag gccaaaaacg acctccacca 120

ttcccctcaa cancctaata ccgccgacaa ggttgttggc tttcatatgg aggaagatcc 180

aactcccgcc gccgctaatc tctctcggaa gaaagctaca cttccgcaac ctactaanaa 240

gtttgtaatc aanctcaata angccaaacc aaactctacc aacaaacttt gaggaagaat 300

acatgggaga agttgcagtc agctatcaga gcatattccn tcaanaaaaa antttcgttt 360

gaccctcgan aagcctttac caaggctgtt tgataacctt tgcttgcaat nagttgggtg 420

ggaaangctt taatgacaag attgagaaag gatgttgang agaacatccc ggcaaccttg 480

cgattc 486

<210> 1717
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-H10

<400> 1717

ggaaaatcnc gggacgaccc aggcgtccgg gagagacaca cgcagatttt gagctgcgtg 60

ctctgtttta agcttgaagg gaggaaaaac atggcagacc aagaatcaga taagaacatt 120

gagatttggg aagattaaga agctaatcaa aggacttgaa accgcaagag gtaatgggaa 180

caagtatgat ctctcttata atgcctccta gagatcaagt agctcgtgtc actaagatgc 240

ttgctgatga atacggaacc gcctcaaaca tcaagagtcg agtgaatcgt caatctgttt 300

tatctgccat tacttctgct caacaaagat tgaagcttta caacaaagtt cctccgaatg 360

gtcctgttct ctatactgga accattggta ctgatgatgg taaagagaag aaagtgacga 420

ttgattcgag ccntttaaac ccgattaatg cntcgttgta ttgtgttgac aataagttcc 480

acancgagcc tttgaatgaa cntttg 506

<210> 1718
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-H11

<400> 1718

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tgaacactga ggcccgtagt ttatctctgc agaagcaact ccagagatat tctccagtca 120

ccctcgaagc caagttgaca gaactttctg aagcagatca gaaagcgttg ggtctaattg 180

tgaaggctgc aaaaattatg gacgatatat tctatgagca ggtttggaac agcaatccag 240

ccctaagaga ttggctgaag gatcatgcca atgcatcaaa actggacaaa ctaaaatggg 300

attacttcac gatcaacaaa agtccatggg tcgtctcttg atgaaaatga agcattcttg 360

agtactgcgg attcagctgt aaagttgctt ccctggagca acaaaagcca taactggctg 420

ggaagggtcc ttgatataga gcaacctttc caatgactaa accaactggt ggcnaatttc 480

aacctcccga tatggataaa atggagttca c 511

<210> 1719
<211> 525
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-H12

<400> 1719

gttcgcctgg gctancctgg ncggaaatgt cgggacgtcc cgggnntccg acnacgcgnc 60

tgcnctcntc gtcttccctc ccgagaaagc tcaacggagc cctagactgg ttttatcact 120

ctcgccaaca ccaaccacgc ttttttctctc tttacctcca tttttgtatt cgtcaccgga 180

gtagatggat acgagagaaa tcaacggttt tgcctccgcc gcgagatcga tatctcttcc 240

tacgcagcct aattacagta gcaagcctgt tcaggaggcg ttgaaacatt tggcatctat 300

aaacctcaga gaattatgta atgaggcaaa agttgagcga tgtcgtgcaa caagagactt 360

agctagctgt ggaagatttg tgaactatgt gttgaatcca tgtggtcatg cctccttgtg 420

cacaaagtgt tgtcagaagt gtgatgtttg tcctanctgt agaagtaccc taccaaaant 480

tggagaatag acntaagnct cgtctccaat atgaatgtgt tgaac 525

<210> 1720
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-H4

<400> 1720

ctggttaact gttcgcctgg cccgtagaat ccggaattcc cggagnnatc nagccaacgc 60

gtcagccgaa ancgtaacca atannnnctt tggtttggna ncaaccgctc nccncaataa 120

caaaaattca gatctgaagc acacacaagc ttcggattcc agatcaaatc cggcgattca 180

agccgctttc ccaaattcac cgtcgatctg gagccgttac aggatccgcc gcagaccacg 240

gcgtcctccg gtaccggcaa cggcaacggt aagatacgct accgttcgcc ttcttccact 300

gagctcctgg agtctgggta accattctcc tacatccgac tctgttgacg gaggtaagat 360

gacggcgaan cgtgggattg ggacggcacg aatctcttgc tgacaagatc aacgccatcc 420

gtnggaatat acntggnaat tccggtccaa ntgtgttgat tcggtcccgg tcctccngcn 480

aatgcctggg aaatncaatt t 501

<210> 1721
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-G1

<400> 1721

acgcgtccgg gagggttgca cacgacacgg ttacatgaga atcaatccac agagcgtttc 60

ttttgatact ccaaatctgc tttccctagc ctactctgat ttagttgctg aggactatcc 120

gttggttaat atgaaaagtt tattcaaggc tcgaatcatc cttggagtag atgacgatca 180

aatcgcccga atgcgagccc caactaacta tttgtcagag gatgatgttg ttcgccgatt 240

tggcaatgtg gtgaagctca tgaagggcat acaaaatgtt cagcaacttc acttgcattc 300

tgatacactc gaggtgcttt caatgtgctg tgaatcgatg ccggtgttca acaacgtcaa 360

aacgttaggc attaagagtg actacgacag aggatggcaa gcantgcctg ctcctccaan 420

ggaattgtcc acatctaaaa ancctgacct ttg 453

<210> 1722
<211> 528
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-E12

<400> 1722

ntggttcgcc tgggcctacc gggtccggaa atcccgggac gacccacgcg tccgcaggaa 60

ctctttcatc aagtattgga aatttaacaa atcttcaaac tgtgttattg cagaacaatt 120

acataacagg aaacatccct catgagattg ggaaattgat gaaactcaaa acacttgatc 180

tctctaccaa taacttcact ggtcaaatcc cattcactct ttcttactcc aaaaatcttc 240

agtacttgag ggttaataat aacagcctga caggaacaat tcctagctca ttggcaaaca 300

tgacccaact cacttttttg gatttgtcgt ataataactt gagtggacca gttccaagat 360

cacttgccaa aacattcaat gttatgggca attctcaaga tttgtccaac aggaactgag 420

aaagactgta atgggactca gcctaagcca atgtcaatca cttgaacagt tctcaaaata 480

aatcatcctg atggaggaac taaaaaaccg ggaaatcccc ggtaatcc 528

<210> 1723
<211> 475
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-082-Q1-E2-E2

<400> 1723

acgcgtccgc tacaactgat ttctacacat cccatgaagt gtttgcttct gccttatgaa 60

cagtccctta caaggttgga ttcaacttct ggtctctact atgattgttc tgcacacatg 120

gtctggtgcg gagagcgtac cagacaattg gatggcgctc atgtcgagtt tctcaggggg 180

attgctaatc ctctgggcat taaggtgagc aacaaaatgg atccctttga gctggttaag 240

ctaagtagaa atcctgaatc ctaataacaa gcctggaaga atcactgtaa ttgtgagaat 300

gggtgccgag aacatgagag ttaagcttcc ccacctgatc agagcagtcc gcagatcagg 360

ccagattgtg acatgggtct gcgattcaat gcatgggaaa caccatcaaa gcaccttgcg 420

gtcttaaaac acgtgccttt gactcaatac tggctgaagt ccgagcatcc cttga 475

<210> 1724
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-E3

<400> 1724

ggaattccca ngtcgaccca cgcctccgag gacacattna gaacctaccg tttctgaagc 60

agcagtatgg actgaacaaa atcacaaacg aggccatcat tgtgatngag gcttacagga 120

cactacgtga tcgaggtcct taccctgtgg acaaagttgt tagagatttc catggaaagt 180

ttgcgtttat actcttcgat agcgtcaaga aaactgtctt tgctgctgct gacgccgatg 240

ggagtgtgcc gttcttctgg ggaaccgatg ctgaagggca ccttgtgttt tctgataaca 300

ccgagatggt gaagaaaggt tgcgccaaat cttatggtcc tttccctaaa ggttgtttct 360

ttacgtcgtc gggtggattg aggagctttg agcacccaaa gaacgaattg aagccantng 420

ccgagagtgg gcaactcaan gtgacctgtt tggtgcaaac cttcaaaggn tgaccgctga 480

gactaaagag aagaaggg 498

<210> 1725
<211> 476

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-E6

<400> 1725

acgcgtccgc ttcttatgat tttcaactta ttacaacaac aacaacaaca aaataatctt 60

gcaaagtttc agtctcaggt ggttcacagt taatgctact tgcaatgatg aatccatccc 120

aatttcgata acctctactg aggcatccaa atgttgaacg gaaaagaaga gcctaagcag 180

aagaaaggtt ggtcaagagt cgctgctaga atttcggtca gggtttgggg aaaagatgaa 240

agttgtgtcg aanaaacgtt ggaaatctct tggtcctctt catctgaaaa gcagatcagt 300

tgcacggttt tgcttctttt cgaanttgaa gtcaaacaac catggtccan gccgtgcacc 360

agtgtanctc antgtttatg actttgactc cctattaacn gatatatcta ntggggcagg 420

ccttggtata ttcactctgn ntgtanaaag ttcatggaan tagagtatgc ctttgg 476

<210> 1726
<211> 524
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-E8

<400> 1726

aactggttcg cctggccgta ccnagtccgg aaattcncgg ggtcgaccca cgcgtccgct 60

acaactgatt tctacacatc ccatgagtgt ttgcttctgc cttatgaaca gtcccttaca 120

aggttggatt caacttctgg tctctactat gattgttctg cacacatggt ctggtgcgga 180

gagcgtacca tacaattgga tggcgctcat gtcgagtttc tcanggggat tgctaatcct 240

ctgggcatta aggtgagcaa caaaatggat ccctttgagc tggttaanct agtagaaatc 300

ctgaatccta ataacaagcc tggaagaatc actgtaattg tgagaatggg tgccgagaac 360

atgagagtta agcttcccca cctgatcaga gcantcngca gatcangcca tattgtgaca 420

tgggtctgcg attcantgca tggaaacacc aatcannngc aaccntgcng tcttaaaaca 480

cgtngccttt gganccaana actggctgaa gtccgancat tcct 524

<210> 1727
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-E9

<400> 1727

acgcgtccgg aatttttttt ctttttctta tctgaatgct ttcattctaa ttaaagattt 60

taatatatga atattcgcac gtggatattt gtataagata tgcattaatc tccgaggcta 120

tgtatagttc agaatttgaa gtgaagttta ggagaggaag agagatggag gtatttagac 180

ttggagagct gagacaccta ctggtgacgg ttttcttgtc ggggctcgcc gaatacttga 240

taaggccagt gatgactgac gtcaccgtag ccgcggtttg ctccggccta gacgattcat 300

gttctttggc cgtctatctc accggagtac aacaagtgac ggtaggaatg gggacaatgg 360

taatgatgcc agtgatcggc aatctatcgg acangatatg gaatcaaagc aatgctcact 420

cctcccaatg ttgcctcctc cggtcctnct ccaacaataa taagggtaca 470

<210> 1728
<211> 493
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-F1

<400> 1728

ntggtagcct ttcgtacgcc ccggaatcca agtcgaccca cgcntccgaa aaaaactgaa 60

acatcccaaa tggatcatca tcttcaacca taacaacacg aaacccttct tctccaaaat 120

ccccaaaacc ttgaaacaaa gtctcaaaat ttcacttcgt ggatccgaat gtctcagaac 180

ccatcactct tcttcctctt atgtctaggg ttaggttttt gcgttgacct gggtcaatcc 240

ctgaaagttc ctttcagcgt taacgatgtt cttccgatgc tacctcgtca agtctcatgg 300

cctgttttga acagtttcca caacgctgtg gatttgttgc cggtttttat tgggtcagtt 360

actcctaata atgtatctat tgagtggaaa ggtgcttgct ttaatggtaa tgaagctcgt 420

cttgatatca ccggtagtga tcgtgacgtc ccctgggact ggtggtggtg ttcctcatct 480

caaaacatcc ang 493

<210> 1729
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-F11

<400> 1729

acgcgtccgc ttcaaacaac aatctttgct tctctctgag tgatcatctt tcttgttcaa 60

tggctggtca aaagatactt tctttactgg ttatagctct tgttgttact tttgcagctg 120

cggctcggct tcttgatgaa gaaaatgcat tctcagctac cacaaccacc cttggctcag 180

gttcaggttc caccggaatt ggttttggtg caggaacagg gtcaagtggt tcaggttcca 240

cgggattcgg ttttggtgca ggatcagggt catctggttc aggttctact ggaagcggtc 300

tcggtgcagg tacagggtca ataccatcaa gtggttcaag tcctgggtct tctaccaact 360

gccaattctg ttcctggttc tttagcgggt ggtggttcaa ggttccttgc ctaccactgg 420

ttcaaccact ggtgcangtg caaggtaccg gttcaaactc cttgganggt g 471

<210> 1730
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-F12

<400> 1730

acgcgtccgc ccacgcgtcc gagctaaaat actgtgttct ttgtttcttc catcgaaatc 60

gaaaaaagct aagatctttg cgttttgaaa cgatggcgga agaacataag catgatgaat 120

ctgtgatcgc tcctgagcca gctgttgagg ttgtggagag agaatcgttg atggataaga 180

tatcggagaa gatccatcac ggtggtgatt cttcttcgtc ttcttcatct tctnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnncccc cttctccttc gtcttctatg aaatcgaaag 300

tttaccgctt gttcggacga gagcagcctg ttcataaggg tcctcgggcg gtggaaagcc 360

ggctgatata tcatgtggga aagaacaaga anatgtccgg gtggggtnac ttggtgggtg 420

ccaacaaccn ccttggggtt gngttttgaa attgaatgga antaccatcc ttcccaatcc 480

ngctttgcca cgtga 495

<210> 1731
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-F2

<400> 1731

acgcgtccgc aaacattaag tagcactctt tttcctctct atatctctca ctcacacttt 60

ttctctatat cttctcctca acttggatat gggtgaagcc gtagaggtca tgttcggaaa 120

tgggttcccg gagattcaca aagccacatc acccactcaa accctccact ctaaccagca 180

agactgccat tggtatgaag aaaccatcga tgatgatctc aagtggtctt ttgccctcaa 240

cagtgttctc catcaaggaa ctagtgagta ccaagatatt gctctgttgg acaccaaacg 300

ttttggaaag gtgcttgtga ttgatgggaa aatgcaaagt gctgagagag atgagtttat 360

ctaccatgaa tgtttgattc atcccgctct ccttttccat cccaaaccca aagactgtgt 420

ttataatggg aaggaaggtg aagntctgct gcaagangaa attctaaaac acacgnc 477

<210> 1732
<211> 531
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-F3

<400> 1732

ttccctgttc cgtacggcct ccggaattcc cnangtcgac ccacgcntcc gcttgtctcc 60

tccggccaac cttaaccctt aagcgaacgg tgttcctttg cggattgcga tcgttccgtc 120

gatcccttca tcgcccgatc taaatctcta atcgtgtcgg agattaaaag cagaggtttt 180

gtggtgaatc atgtctgatg tcccttcttg ttctagcggt aatgatacan acaacaatga 240

ttcgagtaac ttcgaatgta acatctgctt agacttggct caagatccta ttgtcactct 300

ctgtggtcac ttgttctgtt ggccttgttt atacaaatgg ctccatctnc nantctcaan 360

tcctannnga ctgtcctgtt tgcaaaagcc gttgatnnaa gnaagacaan attgggttcc 420

tttgtacngt agaggtaaat cgtctgctga acctccggtc caaagttcaa tccggggtcc 480

ccgaaagntg ccctaaccgn tccatcggga cagaagaccc gaaanctgca c 531

<210> 1733
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-F6

<400> 1733

ttcaagaaac aaaaacaaga taagatctct tcagattcct acactccaac aaatataagt 60

ttcattagat tctttcttag ctagagaatg aaactgattg agaagacgat gagcatgaac 120

cagtttagga ctatggagga ggagaagcaa gacggtggtg agcttttcca taccatcgag 180

gtagctaaag ttgaccggaa caacgtgtct cagccgccgc cggctgctac tgcagcactg 240

ctagaagttc ccggtgatga acttaaccta attccaccgt tgaacttttc gatggtcgat 300

aatggtatat tccggtctgg attcccggac tcggcgaact tctccntcaa gcaaagaact 360

cctgggncct nggtcantca nanctttggt gtccagaggc catatcctga gaacaacatg 420

cagnttcctc aaatccantg gaattagnct ttttcangtt tggcattgaa ggcctangtc 480

a 481

<210> 1734
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-F9

<400> 1734

acgcgtccgt ttntttattc tcatcgggca aaatatatat ccccaaaatt ttatcatatt 60

tctcgataga gaaaaatcat taactaaata tccattccca ctcaaaaccc taaaaaagag 120

agcctcaaaa tctttgagtg ttttgcgtcg tcggttttaa acaaaaaggt tcaataactt 180

tttctctcct ttgtttcttt tttgtttatt atctcctctc atcccatttt cccaacacga 240

cgtcgttaca gattcctccg atggacttcc cggacgatca cccttaacca ccttacaaaa 300

cgacnacgga ggaagaaaag gaaccggtac agccggagcg gttagggtta aaccgtggtt 360

cacttggaga tcaagatccg aatcggactt caatcgnttt cggttaacca gagagtcttt 420

caatctccgt cctggatctg gganggtga 449

<210> 1735
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-082-Q1-E2-D9

<400> 1735

acgcgtccgc tcgattatac agttttcctc tctttcactc tctccgtagt ctgagactcg 60

ccggaaaagc ttgtattggc ttctcttcga tttctggcgg aagtaaggat atcacgtgag 120

ctatgaagtt cctcatgcaa tccatttctg ggaggaatcg atctctggtt cgagctctag 180

ttagtcggcg ttacttcgct tcatcgccgg aggaaatcgc aaagagaaat tacgccaacg 240

atctgtcgga atacaacacc gctgtcaact ccgtcacagc tcagcgcagg cactatttgc 300

tgagggatgt ttatgatgat atgaagcttg atggtgtgca gcctacagct gatatcttcc 360

attcatttgt cgtgggaacg atgaagggtg ctcggttaag cgatgcgttc tttttccggg 420

aagaaatgaa agccatgggg gattgctcca agatgtgaac ttgtaca 467

<210> 1736
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-A4

<400> 1736

aacttctacg ctnttcggtn ncggtccana aattcncggg acctttanac tcacaancct 60

cctctcatct tcaccataac cgaaaaacca aacaaaaaat ccttagataa tcagatcttg 120

atattatgga tcatatcatc ggctttatgg gcacaacaaa catgtcacat aacacaaacc 180

ttatgatngc tgccgcagcc actaccacta cgacctcttc gtcttcctct tcgtcctccg 240

gangngncng ggactaacca gctngcangt gtcagaatcn cnanagaaaa gattgggnca 300

cattttgaca gtatctacgc aatcaccgtc caccacattc tctctcccgt tgcaatggng 360

ctcatgttct tgaaatcctc aaggtnctcg accaatttgg caagactaaa ggtcacacac 420

acctatgtcc gttcttcgga caaccaaaac caacagnaac atg 463

<210> 1737
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-A5

<400> 1737

aattccttgc tatatcgngg nctgtcctcc agtctaacga ggtcccaggg tcgacgtncg 60

natgttttna aanaatnctn cgatnntaaa gaaggctacg cagagcagct gttgaggcta 120

gtgaaggacg aaccgaacta attgataagg tgggagctgg gtatcttgat catttgattg 180

tggaaagaaa atatgctgaa gcggcatctt tatgccccaa attgttacga ggatctgctt 240

cagcctggga gaggtgggtt ttccattttg ctcaactacg ccagctgcct gttcttgtcc 300

catatatgcc tacggataac ccaaggctta aggatactgt gtatgaggtt gctctagttg 360

cactancaac caatccctca taccacaagg agcttttgtc ancggttaaa tcttggccac 420

gttctgtata ttctgctttg actgttatct cagcaatana acctc 465

<210> 1738
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-A6

<400> 1738

naaccatntc ccanatctga atctcaacct aaacctcaga ttcatcatgc atggcttctt 60

cttctaacta cgatggaatc cgtctcggta ngggtaaccn actcctcgat anctctgccg 120

tcgtcgacga cgantttctc accaaatacg acatcaagtt gaagantgng attctcgcgg 180

gagacgaaca tttgcccatg tnngatgaga tgagtagcaa gttcaatgtt gaatacattg 240

ccggaggtgc tactcagnac tcanncaaag tggctcagtg gatgcttcaa attcctgggg 300

caaccantta catgggatcc attggaaagg acaaatatgg anaggccatg aagaangatg 360

ctacantgct ggattcgtcc tcacagtatc gcctgaatcc a 401

<210> 1739
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-A8

<400> 1739

attccttgat agaaacaaaa tggaagacaa taaaagaaaa gtattagatg aagaagcgaa 60

agcttctcta gacatatgga agtatgtctt tgggtttgca gatatagcag ctgcaaagtg 120

tgccattgat cttaaaatac cagaagccat tgaaaaccat ccttcttcac agcccgtaac 180

actagccgaa ctctcctccg ccgtctccgc ctctccctcg catcnccgcc gtataatgan 240

gtttcttgta caccaaggaa tctttaaaga aatccccaca aaagatggtt tagctacagg 300

ctacgttaat acgccactct ctcgccgttt gatgatcaca agacgtgatg gaaaatcgct 360

ggctcctttt gttctcttcg aaacaactcc cgagatgctc g 401

<210> 1740
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-A9

<400> 1740

ngggccaaga gtgtattggn agattttgat ttacgtacgc caacactctt tgacaacaag 60

tattatgtga acctcaagga gaacaaagga cttatccaga gcgaccaaga gttattctct 120

agccctgatg cttcagacac tcttccttta gtccgagaat acgctgatgg tcaagggaaa 180

tttttcgatg cgttcgcgaa ggcaatgata aggatgagta gtctttcacc tttaacaggg 240

aaacaaggag aaataagatt gaactgtana gtggtgaatt cgaaatctaa aatcatggat 300

gtggtagaag atgctcttga atttgcaagc tcaatggtga ggaaatgttt ttctttaaca 360

ataaataaat tatcaatgtt tgtcaaagaa gttaaccttt tttcctaact cc 412

<210> 1741
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-082-Q1-E1-B7

<400> 1741

gttaactctc cgcgttcggt acaaagtctg aaattcccgg gccgacccac gcgtccatga 60

cgttcatcat ctccgggccg ataccagtgt gcgtttggat cgggttgaca tgagcctcga 120

cagggtgatt cagcaagtgg gttccatgaa aattggggga ggtggcttga tatcagaggc 180

catgaagaga gccgaggcta tggagattga gaccaacgac gattcggaga aatttggggt 240

tggattggaa ttgggaaagg ttaaggttaa gaagatgatg ttcgaatctc aaggaggggt 300

ttttgggatc agtggaatgg gcggtgttgg taaaaccact cttgccaaag aacttcaacg 360

ggaccatgaa gtccaatgtc actttgagaa ccggattttg tttctgactg tatcacaatc 420

tccgcttctt gaggagctga gggaacttat a 451

<210> 1742
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-B9

<400> 1742

ggggncgacg cacgcgtcca nagaaaactc atccatggcg attcttaagt tacatctcag 60

caacatcaac cacaccacca attcctcaag gatcaatctc ccaattctcg tctaccaacc 120

aaaatcattc tacccaataa gaaacctgag aaatggtcca ccggagttgc tcccggagag 180

tacggtggtc ctccgactac caccaagctc cgaaagtact ggggaggtga aaaagaagat 240

cccattactt ccacagactt aatctggaac agagatttta tggatcaaat gaagaaattg 300

tttgatgatc ctaatgattc ttctctcgac ncatctcctt caaaggaaaa gtcttctggg 360

tttctgagct ttagcagagt tatgagtctt gacaagtatg gatgttgatt taaagtnaag 420

aacctgcatc ntcctcca 438

<210> 1743
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-C11

<400> 1743

ccatttaaan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nngaggatcc acatcgtgtg gtactgctgg agctctatac gcgttgatag 240

ccgtagtaac tggttgtgca tgtatatact catgtttcta tcgtggaaag atgagagctc 300

aatataatat taaaggagat gattgtactg attgccttaa acatttctgc tgtgancttt 360

gttcctttga cccaacaata acggtgaact caancaccgc ggttacaat 409

<210> 1744
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-C2

<400> 1744

aancttgcca gtgccggtcc aaanattaan gggtccgacg cccgccgtcc gntctgtnct 60

atcgcagaac atttttgttn aaatggcata nataataatc aataacaccc ttgtccaggg 120

atttttgatt ctctctttgg gttttctcgg gaaaaaatgt ctgcgatact ccaagggagc 180

tgganctgca acggctctct cgccgttnaa ntctatcgat tccaacaaac tcgttgctcc 240

ttctcgctct tctctttcag tgaggagcaa gagatacatt gttgccggat ctgataataa 300

aagctttggt tctagcctcg gtanctcgtc gctctgagcc cttgatacca aatgctgtta 360

cnacgaatgc ggacactgct gcgagctcta cttcatcaaa gcctggacat gagctattac 420

ntttcgaggc tcctcaagaa ngtctagaaa gaagagatgg acagagatt 469

<210> 1745
<211> 403

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-C6

<400> 1745

tctggtatct aacaatcatg aggcgtactc aagttgtcta cctaaatgtg tcaaaatatt 60

agaacgcctt gctaggaacc aggatgttcc tcaggagtac acatactatg gcatcccatc 120

tccttggctc caggttaagg caatgagggc tcttcaatat tttccaacca ttgangatcc 180

cagtaccaag aaaagctctc tttgaggtcc ttcagcgaat attgatgggc acagatgttg 240

tgaaaaatgt gaataaaaac aatgcgtctc atgccgtgct gtttgaagct ctctccctgg 300

tcatgcatct tgatgctgag aaggaaatga tgtcacagtg tgttgctctt cttggcaagt 360

ttatttctgt ccgtgagccc aacatcaaga tatctangct tgg 403

<210> 1746
<211> 364
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-C8

<400> 1746

cgcgcgacac atagagtgta gagacgcttt cacgagcgtt tccgacgtcg gactttcagc 60

tcatcatctc cacatcttta acggtaaaga ttaatcatgc ctgaaattca tttgggtgct 120

catacaataa gatcccatgg agtaacagtc gcgaggttcc acatgcatga ctggctcatt 180

cttctgctgc taatantcat tgaaattgtt cttaatgtca tcgancccct tcatcgtttt 240

gttggngaan atatgctcac tgatctcaga taccctctgc aggnnnanca canttccttt 300

ctgggctgtc ccgttgatag ctgttgtgct acnttttgct gtcatttgtg tttancactt 360

catt 364

<210> 1747
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-082-Q1-E1-C9

<400> 1747

acctnccagt gccggtcaag aattaacggg tcgacccacg cgtccaaaga aaatctgttt 60

ttttattgag attttttttgt ttctatagat tctatcgaaa tgccgatgtt tcaagccgtt 120

aaagagagat gggttaatan gatttgaagg tggtggtgat gggcaagtct tagatctgga 180

tactgcagtg aaannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnagaaattg gatctgaaga agatgataaa ggagctagat ttacaagata taccttctgt 300

tttcatttgt cctatctcct tagagccgat gcaaggatcc tgtgactttg tgtactggtc 360

aaacctatga aaggttaaac attcacaaat ggtttaacct aggtcacttg acttgtccta 420

ctacaatgca agaacttttg gggatgatac ngtaactccc 460

<210> 1748
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-D11

<400> 1748

ttcacgcttc caggtnccgg tcaaagaatt ancgggncga cncacgcgtc cnaccgtccc 60

cttgttatac acatttaatg gagtttacac tagggacagt gaaatgagtt cttcattgac 120

tttgacttgc actgacggtg ctcctgcctt aaaacaaaga accatcggtc tcgctaacac 180

ccacttgtcg attccctcgc agctcatctc catgtaccag cttcctcata agatagctct 240

ttgtttgcct tccaccgaac gaagtcagtc tcataatggt gacctttgga tcggtaaagg 300

ggaatattat tatctgcctt acgataaaga tgtctctaag atctttgcct ccacgcctct 360

gatcggtaat ggcaagtccg gcgagtactt aatcgatgtg aagtccatcc aaatcggtgc 420

anaagaccgt tccctatacc ctanggagcc acaaaggatt ancaa 465

<210> 1749
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-082-Q1-E1-A2

<400> 1749

agatactata actaactcct tncnaaaagc aaattttaat tggtggccat ttgccggtag 60

aaaggttcgc cttcttgata anctttcnct ttgcagcaca atatgagcgt gtctacgctg 120

gtagctttca caaggacgtt cagatacatt ggggtgatgg ccgtggaaaa attctcgaca 180

atgtcggaaa tcttctttct ctctcgctcg acaaattctc tggttccggt tttcagtccc 240

atcaagagtt tctttatggc aaagtagagg ttcaaatgaa acttgtacct ggtaactctg 300

ctggaacagt gacaacattc tatctaaaat ctcctggaac tacatgggat gaaatagatt 360

ttgagttctt gggaaacata agtggtcatc catatactct tcatact 407

<210> 1750
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-D2

<400> 1750

ttcccggtgc cgtcnaaaat tcaangggtc gacncacgcg tccgnttgtt acaggttcaa 60

agattcttag ccttccgggg agttttgggt aagaaaaaga cggagtcaca gccaccgtca 120

cccctgagta caaggnacta tcagaatggt gctgctaata ccccaaaggt tcgtcaatca 180

agaccttcac cagtagctat gaagaagacg ccagttccag aagcgaacaa atctttacac 240

tctttatcgt ctgatggaat ctctattgac ctcaacggtc agaatgattc ttttaaccat 300

aagcaggaga agccatcgcg aactgttcct ctatccccaa acagcatggc tgatcgtggg 360

aaacccttat caccacgacc tcaagggcat gaacacagtg gcaagaatna cacagccaag 420

tgaagattag tttgtttaat gttgtaagcc ctcca 455

<210> 1751
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-E5

<400> 1751

acgcgtccgc ggacgcgtgg gcggacgcgt gggggaagag gctaggagga tgatggataa 60

nnatcaacaa ggccgcggat aaatccgaag tagtcnatat aagtgagctt atgttgacct 120

tcacgaactc ggttgtgtgt agacaagcgt tcgggaagaa gtacaatgaa gatggataan 180

gagatgaaga ggttcatcaa gattctttat gggactcaaa gcgttttggg gaagatcntt 240

ttctctgatt ttttcccata ttgtggcttt cttgatgatt tancaggcct cacagcttat 300

atgaaagagt gtttcgaaag acaagacact tanattcacn gaggttgtca atgagacgct 360

tgatcctaag agagtcaagc ccgnaaaccg atagnatgat tgatctcgtg aatggggatc 420

n 421

<210> 1752
<211> 164
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-E6

<400> 1752

tttttctaaa cctannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaaa gtaatctcaa 120

aaactgaatt ttagctgggt nnnnnnnnnn nnnnnnnnnn nngg 164

<210> 1753
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-081-Q1-E2-E7

<400> 1753

ctctcccccc ctcttgaact ttccgatttt gtatcaaaca cgaacctaat actgcttcct 60

tgactggtaa tgtaagtatt tgggttgtta actccatgga aaaatcaggc ccggtgcaga 120

aagccgttgt tctccagcca tttgtcaagt tggtgaggct tgtagcgagg gctttctatg 180

atgattatac tacgaaaagc gataatcagc agaaatctgc tagaagtgac aacagaggga 240

ttgccgctgt ggtgctagac gcgctggcaa ggcggcaatg ggttagagaa gaagacttgg 300

caaaagattt gcagttgcac gccaagcaac ttcgaaaaat aataagactc tttgaagaag 360

aaaagttgat tatgcgtgac caccggaaag agactgcaaa gggtgcaaaa gatgta 416

<210> 1754
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-E9

<400> 1754

cnagtgaatc atccgccgga gaaggtggga gttcatcaat gacgacggtg attaaagaag 60

aagctgccgg agttgacgag cttttggttg ttttaggtta caaagttcga tcatccgaca 120

tggctgacgt ggcacacaag cttgaacagt tagagatggt tcttggtgat ggaatctcga 180

atctttctga tgaaactgtt cattacaatc cttctgatct ctctggttgg gtcgaaagca 240

tgctctcgga tcttgacccg acccggattc angaaaancc tgactcanag tacgatctta 300

gagctattcc tggctctgca gtgtatccac ntgacgagca cgtgactcnt cggancaaga 360

ngaatagaat tgaatcngag tt 382

<210> 1755
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-F10

<400> 1755

aaatcacgtt tccaaacgtg gattttgcaa gcccagcaaa actgaagcgg cagattttac 60

gtcaggaaag gagaggtcaa cgaactttag agctgatccg acaagaaaag gaaactgatg 120

agcagatgca agaagcagcc attcagaagt caatgagctt tgaaaactca gtcataggga 180

aatacagtat atggaggaga gactatgaga gcccaaatgc tgatgctatc ttgaagctta 240

tgagagacca gatcataatg gcaaaagcat atgcaaatat tgccaaatca aaaaatgtaa 300

ccaatctgta cgttttcttg atgcagcagt gtggagaaaa taaacgtgtt atangtaaag 360

caacctctga tgctgacctt ccttccagcn ctcctg 396

<210> 1756
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-F5

<400> 1756

aaagggaaaa ttaccangac aagagtnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnngaaaa tctagaagaa gagaaagcta caaaaatctc 120

aacatcgagg taagagtttt ggctacagag caaccatgct aacttgcgcc ttctcccaaa 180

atcttatcca ctaatctcgg taaggaaagt gatgttggca aaatggtgaa gaaaggaagt 240

tggttttctg ctatcaaaag ggtttttact ccacattccn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nttttgggaa gctaaggcat 360

ggcgaagacc aattcatttc ttcccatctt cagagagcct agtagtatcg aaaagatct 419

<210> 1757
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-081-Q1-E2-F6

<400> 1757

caagatgacc taaagcgtgc aactggagaa ttcaccaagg acgagaacga tgctaacaaa 60

cttaaccgca ttcttcaact cacaggattc agtgacccag tctatgctga agcacatgtg 120

acggtacacc attatgatat tgctcttgaa gttacagtaa tcaaccgaac caaggaaacc 180

cttcagaact tgtgcttgga gttagcaacc atgggtgatc tcaaacttgt tgagcgtcct 240

cagaactaca gtctggcacc tgaaagaagc atgcagatta aagcaaacat caaggtgtcg 300

tccacagaga cgggagtcat attcgggaac atcgtctatg agacatcaaa tgtaatggag 360

cgaaacgtcg ttgttcttaa tgacatacac attgatatca tgggactata tctccc 416

<210> 1758
<211> 402
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-F7

<400> 1758

gcgacnccac aaacacactc atgatnagtg caggatatca tggggactta aaggtttggg 60

atttcaaaaa gcgggantta aagtcccagt gggatgtcng atgttcgttg gntaaaattg 120

tcnagcaccg tgtaaatggt cttttggcta cagtggcgga tgattttgtt atccgtttat 180

atgatgttgt gacactaaag atggttcgtg aatttagang tcatacagac cgtataacgg 240

atttgtncnt nangtgagga tggcaaatgg gtcanctcan ctagcatgga nggaagtctt 300

agaatatggg atgtcanatt ggctaagcan antgatggtg tgcatgtcga tgtgccaata 360

acagcattgt cgttatcanc aantatggac gttttggcac ct 402

<210> 1759
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-081-Q1-E2-F8

<400> 1759

agattgtgag agatatgatc cctcgtatta accgcactag cagatcggat attattctcc 60

ggcaccgcca catcatcaaa aacctcaaac ttcaactccg gcaacatctc ctccttcctc 120

atctcacaaa tgttatgcaa cacacaacaa gctccaagca cgtacggcag atcctgaagc 180

ttcacctccg tccgtttctg caaacaagcc caccgtcctt tgagcctctc aaacgcagcc 240

gtcgcaatcc cctgaatctc tccgatactc tcgttaaacg cgtgctgcgt ccacgtcaga 300

ttctgtctcg tgtacggtac aagaagataa tcagtcaacg gaaacccaga gtttccaact 360

atccagctgt cacgtaacat cccacgcgcc gctctttgcc gtgaaagc 408

<210> 1760
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-G11

<400> 1760

tcanccgccg gcacaggtcc aagaactcgc gggtcgacnc angcntcnng ntanagncct 60

ttcatcacca ttcccaattt tccgttcttg tttctgattg aatcnagata ttgattaagc 120

tatggatgtc aatcggaaag ctcacccgga ttgtcgatat tcttcaaatc ctttccatga 180

atgtgcttca gattgtttag agaagatctc tcaaggcngt ggaaataaga attcaaagaa 240

gcaaggtact ttctctgttc tcacactatg tttgatccgt tacnctatga gtatgcttct 300

gttgtgatgg atatttctgt cnttgtccnt ctttangtan tgcttcaagg ataattcttg 360

nagggggttgt ctgttatgac ngntatagtt tgatcaaggc ggttttanct ttcgatggat 420

ctgcaaagtt gtttcctgtc cttttcccat tgggaatttg 460

<210> 1761
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-G9

<400> 1761

cctttgaaga agaagaatcg cgatttcgag ctctatggtg tccgtaaacc ctagacctaa 60

gggttttcca gttttcgatt cctcgaatat gagtttacca agctccgatg gatttggttc 120

gattccggcc acgggacgga ccagtacggt gtcgttttct gaggatccga cgacgaagat 180

tcggaagccg tacacaatca agaagtcgag agagaattgg acagatcaag agcacgataa 240

atttctagaa gctcttcact tattcgatag ggattggaag aaaatagaag cctttgttgg 300

atcaaaaaca gtagttcaag atacgaagcc acgctcaaga aatactttct caaagttcag 360

aagaatggtg ctaacgaaca tcttccaact nctcgaacta aaaggaa 407

<210> 1762
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-H2

<400> 1762

aantgttccc ggcgccggtc caaagattaa cgggtcgacn cacgcgtccg ngattaccgg 60

atgagtttct tgacgagtta aagaacggtc ttaagtctat ccttgaaggg aatgtagcgc 120

anagtgttga tgagttcatg ttcttgcaga aggttgttca gagtagaact gatttgagct 180

ctgtaacact tgttagagct catcgggtgc agcttgagat acttgtagcg ataaataccg 240

ggattcaggc gtttttgcat ccgaatatta ctctgtctca gccgtctctt atcgagattt 300

ttgtatacaa gagatgtaca aacatagctt gccaaaatca actacctgct gatgattgct 360

actgtgatat atgtactaat aggaaagggt tttgtaacct ttgtatgtgt acgatctgta 420

acaagtttga tttttcggtt aatactgccg ctggatcnga tg 462

<210> 1763
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-H3

<400> 1763

cgttaccttg caggnccggt ccagnattaa cgggtcgann cacgcgtccg gatgaaatca 60

aaccaaccat taaggaactt gtaatggcgg cgccagacaa cccatcaaac gccgtggaat 120

gggccattgc ggagatgata aacaaaccgg agatcctcca caaagctatg gaagagatcg 180

atagagtcgt cggaaaagaa agattcgtcc aagaatccga tataccaaaa cttaactatg 240

ttaaagctat tatccgagaa gctttccgtc ttcatcccgt cgccgccttc aacctcccac 300

acgtggcact ctctgatacg accgtcgcag gttaccatat tcctaaagga agtcaagttt 360

tacttagccg ttacggtctt ggtcgtaacc ccaaggtttg gtctgatcca cttagcttca 420

aaccagaaag gcatctcaat gagtgttcgg aagtgacttt tgacggagaa tgatc 475

<210> 1764
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-H6

<400> 1764

aaattgggga ttagagattc gaagagttgt cgtagcgaga tcgagttttt ggaagaacag 60

attgtgaatc atgatggtga tttggagcca acgggatcgg ttattaatgg ttttgtggcg 120

attacaagat actgtaggtt cttgttgttt ggatttgaac gaanatggaa tggagtggtg 180

gattgagaat aatccgaaga agcctcgaaa agggttcgtt gcacaggaga ttggagacac 240

gtttataact gtgccaaagg attttgtttg tccaatctct cttgatttga tgacagatcc 300

tgtgattatt tccactgggc agacttatga tcggaactct atagctaggt ggattgaaca 360

agggcattgg tacttgtccg aaaacaggac aaatgctaat ggattccgag gattgttc 418

<210> 1765
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-H7

<400> 1765

acgcgtccgc ccacgcgtcc gcggacgcgt gggcttaaag gtggagcttt cttcgaattt 60

ctccgatcag ctcaagaggc aattgtgtta ccaccatttg ttgctttagc tgtgagacca 120

agacctggag tttgggaata cgtaagagtt aacctccatg atcttgtcgt tgaggagctt 180

caagcttctg aatatcttca attcaaggaa gagctcgtcg atggaattaa gaatggaaac 240

ttcactcttg aacttgactt tgaaccattc aacgcggcat tccctcgtcc tacgctcaac 300

aagtacattg gagatggcgt tgagttcctc aaccggccat ctctcgggct aagctcttcn 360

atgacaaagg agagcttgca tccgctgctc aagttcctcc gcctccattc ccaacgaagg 420

g 421

<210> 1766
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-E3

<400> 1766

acgcttgccg gtgccggtcc aaggattaac gggtcgannc acgcgtccgc aacaancgcc 60

gccgtctcta gaaatatcca tccacctact tcggctttgt ttatcaggtt cgatatatct 120

atcaccaccg ccttcttatc tcaatttctg tgtttgattt ttgctttgtt ggtgtttgat 180

tttaccgcag attttgatga aaccagatcg ggtcttcctc tagatccgtt ctaggttttc 240

tatttcnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnagacat gtctctgttt ctgaaagacg attcgattca 360

aattcgcgaa gtctggaacg ataaccttca agaagaaatg gatctgatcc gagatgtcgt 420

cgacgacttc ccttacgtcg ccatggacac tgaagttccc cggcatncgt cg 472

<210> 1767
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-B7

<400> 1767

acncccctata gtgacgtcgt attattattt accatctaag tttttggtca ttaactgcag 60

gcttaaagat gaaggtacct aggtacaata aggtgagtca cagcttgata taatcttctc 120

tgcttcatca ctttgtatca taaatgtcga acgaaaacag aggaacctgt tcttaactcc 180

tcgatatata ttcttatttg gctgcagtct gcctatagtg ggagaggtga cagagccgat 240

tcatcaacat ggcctgaagt tgaaggacct ctatcggtta ttctctttga gggatggatg 300

cttggtttta agcctcttcc anctgacgtt gttaaagcag ttgacccaca gctggaggtt 360

gtgaataaga nccttgaagc gtantacgac gcatgggaca angtacatcg atnccttggg 420

gtcgtcat 428

<210> 1768
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-C1

<400> 1768

tccagggncc ggtccagaat tanacgggtc gagncncgcg tccgggaatn tggggattag 60

cttgggaaac ttcgccggag attcatacgt cgtcgtcgtc tttagtatct gtatcgtcaa 120

tggcgttgct gaagtctttc atcnatgttg gctcagactc gcacttccct atccagaatc 180

tcccttatgg tgtcttcaaa ccggaatcga actcaactcc tcgtcctgcc gtcgctatcg 240

gcgatttggt tctggacctc tccgctatct ctgaagctgg gcttttcgat ggtctgatcc 300

ttaaggacgc anattgcttt cttcagccta atttgaataa gttcttggcc atgggacggc 360

ctgcgtggaa ngaagcgcgt tctacgctgc aaanaatctt gtcatctaat gaacctatct 420

tgcnagacna ntgatgtttt tgaggangaa aatcantcca atccaga 467

<210> 1769
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-C12

<400> 1769

aaggtccngg gtccacccaa ncgtccgacc acgcgtccgc tacttcaaaa cttttgataa 60

tcttctttaa actttcttct tcgatctctc tttgttaact ttctttcgtt acgtctctct 120

cgttctcgtt atttcttatt ctcagatctt ggattcacga ccatctcgat cgttgaccgt 180

cgaatttggg ttcggctaaa aatccaatct ttttttttccg gtgagaagct cgagagagta 240

tataatttaa taaagggtac gtacgatttt ggttgagtgt tntgatgatg ttgacccaat 300

ttgttggggt gtgaagtata cntatggaac tgattgtcac aatacaagaa gancaacatc 360

ancaacannc aatgaataag aagnangaca ctttaagatt ggtcgtnaag ctnccaancc 420

aagggaaaaa aaatttggcc n 441

<210> 1770
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-C2

<400> 1770

ntgttacgtt tgccggggcc gggtccaaag ataacgggtc gaggcacgcg tcgttctact 60

nctctttctc acntacttan ccaataaagc catcaaatcc caaaanacac catttacaaa 120

tgggntcttc tancttcttc ttcatcctta tcttcctctc cgtcgtctcc gccgtcaaac 180

tacctctctc tcccttctct cactccgacc aatcaccaaa agacccttac ctctctctcc 240

gtcgtctcgc tgaatcctca atcgctagag ctcataaact caaacacggc acctcaataa 300

aacccgacga anatgctctc tcctccacca ccaccgcatc cgccaccgtc gtgaaatctc 360

ctctctctgc taaaagctac ggcggatact cagtctctct cagcttcggc acaccgtcgc 420

aaacaatccc attcgttttc gataccggaa agcagtctcg tttggctacc ttgtacctca 480

<210> 1771
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-C4

<400> 1771

ctgttacgtt gccgggccng gtccaagaan taacgggtcg acgcacgcgt ccngggaatt 60

gtntcgttcc tcacacacgc ctctcatctc ttatccattc ttgtcctttt ttcagctcaa 120

caagaatgga taantgtact ggagaaaatc ccatggcttc tcagttgaac attctccgat 180

gcccgttctt gaggaacatc aatgagccca ctaacctctc tttctcntca nccttgcctt 240

ttcccatccc tgcaagagct gggaaaggac ctatatttga agatggtccc aattttgata 300

cggcgtttan gcttttccat ggccaanatg gagttgtccc tcgctctgac accgctcnaa 360

ctgaagccca naagcctgtg cctgtattcc atccacttgc tgctaatgcg gncactatta 420

gtctctcanc ntttggatct ggagggcttt tggatttgat gcaatttttc ngac 474

<210> 1772
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-C5

<400> 1772

ntggacgaag caattgatta cctaaagttg ctgaaacgag acttaatctc cacagaggtt 60

aagaaccaaa gctccaccac tcacaagtca ccaatcttgt tgcttaaaga gacaacatgg 120

ggaacaagaa atctgcagac agataaggcg tgaaagattc tgacgagtta aaacgtgtga 180

agtgggtttt tgggtacgta tcctctgcac cagcttttta gctgtatata gtggactact 240

tttaagtatt atatatgcta ctgcaaattt caaaaagtta aagaagaaaa gaggtcactt 300

tcttcttctc tctgtgtgga atgaaaagcc aaagtcgtca tggtcattga tggacaatga 360

ttatcttttt tggctgagtg tggatggtga aatcaaaaag gcaaa 405

<210> 1773
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-081-Q1-E2-C6

<400> 1773

tgttaactca gatgatacaa tacgaaggat aagggaatgg agacaatctg gaggaatgca 60

gccaagtatg cgcaatgctg ctcaagtggt tcacgataca ttgccaagcc cttctgtttc 120

agcttctatg aagacgcaca aaccaaacca gccaattcct tctcaaccat tcgctagttc 180

ttcaccttct tttcatcctc aagctgatcc cactcacccg tttgcttcat cgacagctaa 240

acgaggacct gttcctattg tcaagggcaa aaaaacacaa accagttttt cctggctcgt 300

cttccacaaa acatgcccca taccatcctt cagatcaacc tccacgagga caagtcatga 360

acagattacc atctgttcct gccagttcaa gtg 393

<210> 1774
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-D10

<400> 1774

tgattttgga atctccatta cgatggaagg tgcggctgat caaactacga aagcgttatc 60

tgaattagcc atggattctt ctaccacctt gaatgctgct gagtctagcg ctggtgatgg 120

agctggacct cggagtaaaa atgctttgaa gaaggaacag aaaatgaagc agaaagagga 180

agagaagaga cgaaaggacg aagagaaagc tgaaaaggct aaacaagcac ctaaagcaag 240

ctcccagaag gcagtggcag cagatgatga agagatggat gcancgcaat actatgagaa 300

cagattgaaa tatcttgcgg ctgagaangc taaaggggag aatccatatc ctcacaagtt 360

cgctgtgtca atgtcgantc cctaaa 386

<210> 1775
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-D3

<400> 1775

ngttaccttg ccgggccggt cnaagaatan ccgggncacc cacgcgtcnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntanccca cgggaaacga tttcttcgcc 120

gattcaaaga cttttcttcc taagcttttt aacagatccg gtgaaaattt caaaatccga 180

agaattctct aaagctaggg tttcttaatt cacgagacgg aggtgatata attccccccc 240

gtcgtagcta tgatgatttc gagaggtttg tttggttggt ctccgccgca tatacaaccg 300

ttaactcctg tttctgaagt ttccgagcct cctgagtctc catctcctta ccttgatcct 360

ggtgctgagc acggtggtac aggaacagcg gcgcaagcgg atgatgagga ggaaatggag 420

gagccggagg agatggagcc tcctcctgct gctgttcctt tctctcagct a 471

<210> 1776
<211> 347
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-D5

<400> 1776

aagctgtgcg ggtctatctt tcccggaaat gaatgttatg tcactccagt accaccctga 60

agcctccccc ggacctcacg actctgataa cgcatttaga gagttcatag agcttatgaa 120

gagatcgaaa caaagctcct gatcaatgag aagtactctt tgtttttgta cgttgctgtt 180

tttaatcatg gcacttaaat taaaaccaac tgttttgtta gtgataatgg attggcatta 240

ttgtttcttt gctttgactg tattgagcaa ccatccaacc tnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngg 347

<210> 1777
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-081-Q1-E2-D7

<400> 1777

ttgcatatct tcatcttctt cttgagatga agttgaagtt gtcatcaatc tccatgaatc 60

ataagaatgt gcttctcatc aagctcatct ccgctattct gatatctttt ttcgcgttcc 120

gtctcttcat tctccactcc agcgagtttt ctccaatctt tgcgtcggtc accggaaaat 180

tcgaagctcg gtttctgccg ccggagatta tcgtaccgga aaatgaagat ctgattcctc 240

aagatattga agtagagaag tgtgatcttt tcgccggaaa atggatccca gattcagtag 300

gaccaatcta cacaaacaaa tcatgcggat cactcattga cggtcaccaa aattgtatca 360

ccaatggccg gcctgactta gattttctct actggaaatg ggaaactcat gactg 415

<210> 1778
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-D8

<400> 1778

atncaataca atgtctactc ttgttttatt cctccaactt ttttccatcc taccattagc 60

acttgggttg aaccacccaa attgtgacct gaccaagact caagaccaag gctctaccct 120

aagaatcttc cacatagaca gcccttgctc ccccttcaaa tcatcatccc cactctcatg 180

ggaagcgcgt gtgctccaga cgctggctca agaccaggcc cgtctccagt acctgagcag 240

cctcgtcgcc gggagatctg tagtccccat tgcctcaggg cgtcaaatgt tgcaaagcac 300

tacatacatt gtcaaggctt tgatcggtac tccggctcaa gccgctgctc ctagccatgg 360

acacgaagca gtgacgtggc ttggattcct tgctccggct gcgtttggct gtcct 415

<210> 1779

<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-D9

<400> 1779

cccgactaaa gaaatgggat cgtctgcgga tacagagacg gcgatgataa tcgccacacc 60

ggcgtcgaac cataataatc cggcaaccaa cggcggagat gcgaatcaga atcatacttc 120

tggtgcgata ctcgctctca cgaattcaga atcggatgct tcgaagaaga gaagaatggg 180

ggtgcttccg ctcgaggttg gtactcgcgt gatgtgtcaa tggagagacg gaaaatacca 240

tccggtgaag gttatcgagc gccgaaagaa ttataatggt ggtcacaatg attacgagta 300

ctacgttcat tacacagagt ttaatagaag attggatgaa tggattaagc ttgaacagct 360

tgaccttgat tcagtagagt gtgctttaga ttaaaanctt taagac 406

<210> 1780
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-E1

<400> 1780

ttgccggngc ccggtccagg attaacgggt cnangcncgc gtccggaaca ntcttgcggn 60

acgagcgacc tacagttcca ggagagaact ccatcaatgg cttcaaggga actgcttcag 120

ctaagagaaa gacaaactgt ctctggctta agggaanggt tccataacgg gagggaaaat 180

attgtccatg aaaatactag caacactgat aatgataata gcaatacttc cacaaatgct 240

cttgcaattg cnatcactgc tgggaattct cagcgtgtaa ccgatgagag ttcancttct 300

tccagacaag ggaatgatag tcccattttg cctganaact cagaaagcaa cctagcaaat 360

gcggatagag actgggaaga ggataccaat caaagaaaga tctggcagga aaatgtccca 420

ngtagatgag aaggcaaatt ttggagcan 449

<210> 1781
<211> 413
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-B6

<400> 1781

ctctgctttt gtctccccca aacaaaagga taaagaaagt tgcagaaaac aatctctctg 60

ttctttgagc tttccctttg agctctcaca cgagcggctt cttttgtcat ctcacctttt 120

ccttcattct ttcttccttc aaattctggt ttttttcaca gatcgttttc tcagattttg 180

actctttttg gtgttgttgt tgttcttctc cttcgtgaag tggaagaaga atataacaaa 240

actgggtttt ttatatctgg aattctgaag aaattcttca cggatttgat ctgtttaaac 300

tataaaagtc ttgattttta taaatcagct aaaaataaga cacggtttag ggtttatggt 360

ttgactagaa acaacaatac tgaaatgggt tgtgaggttt caaagttang tgc 413

<210> 1782
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-E12

<400> 1782

acgcgtccga aaacacacaa atggaaggaa gagtcaacgc tctgtcaaac ataaacgatc 60

tcgaacttca caatttcttg gtcgatccaa acttcgatca gttcataaac ctcataagag 120

gagatcatca aaccattgac gaaaacccag ttcttgattt cgatcttggt ccattacaaa 180

acagcccctg tttcatagac gagaaccagt tcatcccaac acctgtcgat gacctcttcg 240

acgaattgcc tgacttagac tccaacgttg ctgaatcatt ccgtagcttc gacggtgata 300

gtgttagagc cggtggtgaa naagatgaag aagattacaa cgacggtgat gantcttcaa 360

ccactactac gaataatgat ggggacccgt t 391

<210> 1783
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-B11

<400> 1783

ttaacgggtc gangcacgcg tccgatcgtc acttttcttt ctccacactt tccgcaagat 60

tgttctgttc ttcaaacgat tctaagatga atggagaaga agtgaaaacg agtcaacctc 120

agaagaagct tcagaaccct actccacgtt taaacgagag gattctctca tctttgtcta 180

agagatcggt tgctgcacat ccatggcatg atcttgaaat cggacctgga gctccagtga 240

ttttcaatgt ggttattgag atctcaaagg ggagcaaagt caaatatgaa cttgacaaaa 300

aaacaggtct catcaaggtt gataggattc tttattcttc ggttgtgttc ctcacaacta 360

cggggtttgt cccacgcaca catgtgaaga caatgaccct attngatgtt ttanttacca 420

agccaggnac ctgggcc 437

<210> 1784
<211> 376
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-B3

<400> 1784

aacccatttt ctctgatcga ttaggccacg acgtttcctg aggtgcaggg cacgagtcgc 60

tcaatctctc tcttcttctt cttcttttca cgaattttct ccgaaacttg gtttttattc 120

ctcaaaccca taaattaggg ttcagttttt aagcctccgt cttcttcttc ttccgtcgtc 180

gtagtcgaaa ggtggtttta gctatatgga tatcttctac tgcaaatact cttcaaaacg 240

gatgctttga agccttgata ctaatttcat gcgttctata tatgtgcatc gtaaggaagt 300

aatgggagag aatcgtcaga ttaaattacg ttcctgggaa taaaatggca aactaaaaga 360

tgcattncaa atggca 376

<210> 1785
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-B4

<400> 1785

ctgttacgct tgccagtacc ggtcaagaat tnccgggtcg acccacgcgt ccncggacgc 60

gtgggcggac gcgtggggga tcttcttccg gaggtgactc gtcgccggga tcaagtccga 120

cgacttctgg atctcctccg aggcagctac atcatcatca acatcagatg aagaagcttc 180

ctccgttgta tcctaggagt caagggtctt ttggtaattt gacttcgtct cagtcgtcgt 240

tgggtttttg tgcctggaga tcgttttcgg tggctgattt tccgaggtgt tttccggcga 300

cggcgagtgg gattgggttt aatgactcgt aggaaatgat gataacaatt gttttgttaa 360

atttttatat tttgaaagtt agtaacaacc acatccggga gaatgtatgt tgtanaaaaa 420

nannttcaaa acctttggaa tgggttaanc aaaatctttt ttttccaaaa 470

<210> 1786
<211> 373
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-B5

<400> 1786

gggaccgaat tggatccgac tttgacatat ccttacatgt atagagctgt cacacgaatg 60

tcgaaacaaa atgctaaggc tgctcttgaa gaaatcaatc ggatcttggg gtttaaactt 120

gctttagaat gcttagaaat tcggttttgt ctttatcttg gtatggatga ctatgaagcg 180

gctcttcgtg atattcaggc tgctcttacg ctgtgtcctg attatagaat gttcgatggg 240

aaagtagctg ggaggcagct ccagacgctt gtgtatgagc atgtcgagaa ttggacaacc 300

gcagattgtt ggatgcagct atatgagaaa tggtctaatg ttgatgatat angttcccct 360

tccnggtaac caa 373

<210> 1787
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-B9

<400> 1787

cgcagccgtc canaaactcn agggtcgacn cacgcntcnn nngacaannng cggnnataga 60

gtcgctggat aaaatgcggg aaggaagtaa gaaagcaaca ctgcagctgg ttgacatgga 120

gtgcagttac ctcactgttg atttcttcag gaaacttccc caggatgttg agaagggtgg 180

taaccccaca cactccattt tcgaccgcta caacgattcc tatctcagac gaatcggatc 240

caatgttttg tcttacgtga acatggtctg tgctggcctg cggaattcaa tccccaagtc 300

catcgtatac tgccaagtcc gagaagcgaa gcgcagtctc ctcgaccatt tctttgcgga 360

gctcggtacc atggatatga agaggctctc gtcgctattg aacgaagatn caacaatcat 420

ggagaaacca n 431

<210> 1788
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-C2

<400> 1788

acgcgtccgg acaaagaagg tgtgaagaag ttgggaaaac aaaattaacg cttgaagaat 60

ctaaaggttt agctttttc tcaatccgat cattcaccga gaaatattct attttatata 120

tttatgtgaa gctcttcaat tgaagaaaga agaagaaaag acaatcgtca aatgcttgac 180

tttggtttca gttcttcttc acgacagctc aaggaagatc ggctctttga tgggatggga 240

caccaagaaa tcaccatggg tttatgatgc tatcaattac tagtagtacg tgttatcttc 300

tgaatatata tcatggcatc ctctggactg ggaaatggag tangcacttc gagatntgcc 360

aaagggttaa agaacccctc canntccggt caattgggtn gaccaa 406

<210> 1789
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-C3

<400> 1789

actgttacgc ttccagtgcc ggtccaagaa ttaacgggtc ganncacgcg tccggaacac 60

gcaggtctat cagtatgtga tgtggttcat caagattccg agcagaaact agagaatact 120

gctcacgagg caaaaaacac aatggctagc actgatttcc tggcacagct ttcaacttct 180

cttttcgaag aagacatgga accgttcatg gaagtagatg gcaaagaagt tgacaagtca 240

tattatgatg gtcttagctc actgttggtg aactctacaa atgatacaaa ccgcgaggct 300

tttcctaacc ccaccgagca agaaccttcc attgcaccaa ctcatccagg agaggcaacc 360

ctggatgatc atgtgatgct tgagctagat ggtacaatcg ctttanattc tcaacctgaa 420

aatggtgggg ggggttancc ggccggttaa ttaancgaa 459

<210> 1790
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-D1

<400> 1790

ntgttaagct tgcaggtgcc ggtcaagaat taacgggtcg acncacgcgt ccgcacacac 60

tgctcccaag tcctctcact tcttcttctt cctccgacac cgttgcttaa cggttttcca 120

tttttgtccc ttcaagatga tctcatggca cgacctctac acggtcctca ccgccgtgat 180

tcctctctac gtggccatga tcctcgctta cggctctgtc cggtggtgga aaatcttctc 240

acccgaccaa tgctccggaa tcaaccgttt tgtcgccatc ttcgccgtcc ctctcctctc 300

ttttcacttc atctccacca acaatcctta cgcaatgaat ctccggttca tcgccgccga 360

cactctccaa aaaatcatca tgttgtcact tttagtccta agggctaatt tcantcgctc 420

cgggtaaccc ccaattgnnc naccaaaatc cttttcctcn ccaaa 465

<210> 1791
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-D11

<400> 1791

ttacgctncc ggtggcccgt ctagaattca ngggtcgacg cacgcgtccn aattccacca 60

tcatctccnc tcctacttct catcttcatc ancaccgtct aaagattcaa ccttttgtaa 120

ctgcttccaa tggcgttagc tcnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnntaat ttcagaacaa ctcatctgaa tttcggttct 240

caaaggagga tttacacaat caatcctctc cttagatcct ttaaatgcct tcaatcatct 300

tcaagagacg taaatgcgtc acctnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

ccttgacaga gcaattgatt gan 443

<210> 1792
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-D3

<400> 1792

tactggtaaa aattggtggt ctcttctttg tctccgagta tggagaaaat gagagggaag 60

cgaatcagac caagagattc cggcgagtta gtcgaagatg ggagatctga aagcgagcgt 120

aagacgagga agaaagagaa tgatgttgtg agcaaaggaa gaatcggaag aggaagagga 180

agaggagagg tttcgaagcg atctattgaa atagacattt ctaatcccga gaaggatatt 240

aagcctgacg gaagcagaaa gtgtttgggt tcgacgtgtc atcattgtaa gatcttgacg 300

agtgagagtg atcttatctt ccgttcaaag tgtaacaaag aaatgttaat gcctttgacc 360

ggcatccagn aattcgtatc nagaaggaac cccatgagga atttag 406

<210> 1793
<211> 377
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-D5

<400> 1793

gggcggacgc gtgggctaag tcgtcgagtt attatgttgc agtaggcaac gtatacctga 60

atgaagtgaa ggcgacgatt gacattcaag ttgaggggtt attgtatgat actacaaatg 120

cttattacaa ttgctctttc cctaacgaca agtgcactct aagtgttcca ttatttggaa 180

ctaatgctgc tgtactaacc tcaccaggtc caaagctgaa caattctaag aatgagttct 240

gcgcaaaact ctcatatgaa ccaaggtgga ttgcatacat agtttgcatg ggtgtagtga 300

cagcactctt gttaattgtc tcgagtctct tcaataaacg acaaccaatc actgaagatg 360

aaacccgttg atgnaaa 377

<210> 1794
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-D7

<400> 1794

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncatg 60

gatctacgat catgtggtcc ttcttgaagt tttttgatct cttcttctta cgggttttta 120

cttcgtttga ttttcctgtt gtttgttgtt caaggatcga gatttcgtgg agctctctat 180

tcgcagcttg gagattggac ttgtttgaat tggctctttt gtgatggagg atactcggtc 240

agttgcttca ctcatggact ctacatcatc caagattcag cagcttcaga aggcgtttgc 300

tgaacttgaa agtcagcgtg ctgtaacact taatctgaag tggaaggaac ttganganca 360

ntttcaaggg gctnaaaagn cctttgaaaa aaaggttcat 400

<210> 1795
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-D9

<400> 1795

nanggaaaaa agttcatgtc ttatccggtt gcggaaggga tgaattattg aagattatgg 60

acttcacatc cctgccacat ttctgtagaa gtggaagctc tgggtcatct caccacactc 120

agagcgcaaa ttgtttttct atcaatcatc ccttccatca acagctatac aactatgtga 180

agcaccatta tgaaacccaa ggacaagcag aacctgcaaa gcaaggatca ttccacgtgg 240

gttttcctga gcctgaagct gaacgttgtg atagccaaaa ccatagaatc ggagctgcac 300

aagtttgaga accgcaacgg tctggccgtg tccattgatg acagaaaatc cagtcatgaa 360

acactggcaa atggtgacct ctgaatgcct ctgaaggaaa tcccttangt 410

<210> 1796
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-B1

<400> 1796

ggtaanggtc aaggggtcgn nggcacgcgt ccgccacgat cttcttccaa tctcaaatct 60

cccattttct agtgtttcat tttgatcctt cttccttcct ctggagattt ctcaaatctc 120

ttcaactatt ttgatttgcc gccatgtatc gacgcgccac ttccggcgtg cgttctgcct 180

ccgcaaggct ttcttcttcc ctctccagga tcgcctctag cgagacagct tcggtttcgg 240

ctccatctgc gtcgtcgctt cgcaatcaga cgaaccgatc taagagtttc tcctcggctc 300

tccgctcctt tcgagtttgc tctgcttcca cgcggtggag ccatggtggg aagctgggga 360

tngcctgcna nccttcgggg tcaagccagg ggaantcc 398

<210> 1797
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-E1

<400> 1797

acgcgtccgc ccacgcgtcc gcacacatca aacacgtgaa ttgctctctt tctggttcac 60

tcacctacca ttactataag tctgaaagag tgattgaaac ccacctcgaa aaatctatcc 120

ttttttttgt tttccttctc cggcgaatcc ccggggagat tggtaatcgg taatcacggc 180

tatttacggg ataaagccac ggcctttgag cttcatgtcc aacgaaaggg ttgtttaatc 240

ataactaatc ctttgcctca cggaggacgt ggagctctgc cgtctgaagg cggcagtccc 300

tccgatctcc tcttcctcgc cggaggcggt tccacaaata gccactaacc ctaaaccctt 360

ttccaaatan gggttttaag tcctaaaagt ccng 394

<210> 1798
<211> 340
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-B9

<400> 1798

acgcgtccng tgacaaatgc ggcgatanag tcgctggata aaatgcggga aggaagtaag 60

aaagcaacac tgcagctggt tgacatggag tgcagttacc tcactgttga tttcttcagg 120

aaacttcccc aggatgttga gaagggtggt aaccccacac actccatttt cgaccgctac 180

aacgattcct atctcagacg aatcggatcc aatgttttgt cttacgtgaa catggtctgt 240

gctggcctgc ggaattcaat ccccaagtcn atcgtatact gccaagtccg agaagcgaag 300

ccgcantctc ctcgaccatt tctttgcnga gctcggtacc 340

<210> 1799
<211> 368
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-C2

<400> 1799

aaagaaggtg tgaagaagtt gggaaaacaa aattaacgct tgaagaatct aaaggtttag 60

ctttttttctc aatccgatca ttcaccgaga aatattctat tttatatatt tatgtgaagc 120

tcttcaattg aagaaagaag aagaaaagac aatcgtcaaa tgcttgactt tggtttcagt 180

tcttcttcac gacagctcaa ggaagatcgg ctctttgatg ggatgggaca ccaagaaatc 240

accatgggtt tatgatgcta tcaattacta agtagtacgt gttatcttct gaatatatat 300

catggcatcc tctggactgg gaaatggagt aggcacttcc gaagatctgc caaanggtta 360

aaagagct 368

<210> 1800
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-D3

<400> 1800

atactggtaa aaattggtgg tctcttcttt gtctccgagt atggagaaaa tgagagggaa 60

gcgaatcaga ccaagagatt ccggcgagtt agtcgaagat gggagatctg aaagcgagcg 120

taagacgagg aagaaagaga atgatgttgt gagcaaagga agaatcggaa gaggaagagg 180

aagaggagag gtttcgaagc gatctattga aatagacatt tctaatcccg agaaggatat 240

taagcctgac ggaaagcaga aagtgtttgg gttcgacgtg tcatcattgt aagatcttga 300

cgagtgaana gtgatcttat cttctgttca aagtgtaaca angaagtgtt attgctttga 360

ctgcatcaag agatcgtatt caggaaagaa cacatgagga agttangagc tg 412

<210> 1801
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-E1

<400> 1801

acgcgtccgc ccacgcgtcc gcacacatca aacacgtgaa ttgctctctt tctggttcac 60

tcacctacca ttactataag tctgaaagag tgattgaaac ccacctcgaa aaatctatcc 120

ttttttttgt tttccttctc cggcgaatcc ccggggagat tggtaatcgg taatcacggc 180

tatttacggg ataaagccac ggcctttgag cttcatgtcc aacgaaaggg ttgtttaatc 240

ataactaatc ctttgcctca cggaggacgt ggagctctgc cgtctgaagg cggcagtccc 300

tccgatctcc tcttcctccg ccgggangcg gttccacaaa tagccactaa cccctaaccc 360

ttttttcnaa ttanggtttt taagttcctt agaagtcccg gt 402

<210> 1802
<211> 371
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-F10

<400> 1802

aattctgctt tacggacctc ctggatccgg gaagactctt attgctcgtg ctgtggntaa 60

tgaaaccgga gcattcttct tctgtatcaa tggaccggaa atcatgtcaa aactagctgg 120

tgagagtgag agcaacctca ngaaagcatt tgaggaggct ganaagaatg ccccgtctat 180

catattcatt gatgagattg actctattgc accaannaga gagaagacga atggtgaggt 240

tgatgaggag gattgtctct cagctcctta cgcttatgga tggactanaa tcacgtgccc 300

atgttattgt tatgggagca acatatcgtc ccaacagtat tgatccggct ttgagaaggt 360

ttgggaanga t 371

<210> 1803
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-F9

<400> 1803

tccccaaaaa caaaggaaac aaaaaatcag tcggcgaaac gggaagagat ctatcggaaa 60

tcttacggcg gcggaagtca tggcgaacat agaatcagaa gcagtcgatt tcgagccana 120

ggaggatgac cttatggacn aagaangtac agctattgac ggagctgatg tttctccacg 180

cgcgggacat ccgaggctta agtcggctat tgccgggagc taatggcgaa tcagcaaaca 240

agaccaaagg ccgtgggttt cccgaggaga aagattccga tctcagcgtc gtctttcctc 300

acgcnatttc gaatcacntg gttcanatgg ccgtcctggt cccgcaagag attncntttg 360

aaaggattgg attatcctgg gg 382

<210> 1804
<211> 376
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-G10

<400> 1804

atctgaaatt tctacgtatc cccttggaca cgtctacgan gagaggggac ttcagatgga 60

gttgcatctc aaagaattac catgttcaag aatattagtg gccaccaggg atttttttctt 120

tctggctcaa ggccggggtg gtgtatgttg ttcagagagc gactacgatt tcattcacag 180

ctgtgcgacg gatcaattgc ggcctttant gttcttcaca atgtgaaatt gcaatcacgg 240

ggttcatata tgtcacagca cangggagtt ttgaagattt gccaattacc ttcagcatca 300

atctatgata attanttggc caagtgcaga agattccctc taaaggccac acctcaccaa 360

gttacgtacc aacgcg 376

<210> 1805
<211> 371
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-H10

<400> 1805

acgcgtccgc tcgccaagaa gtttcctttc ctttgattgc acaactaatc tcaaactaaa 60

agatcttctc tttaggcata cccangatct ttctctctct aaagtctcca cctttcacgg 120

ttttttgctt ctcacctgaa tccaatcaat ctcgccggag tgaattcacc ttcctccggt 180

tgactcgtcg gacttagtcc gacctttcaa ttcgtagatt ctgtttacaa ttcactgatc 240

gtttgattag aaatgggtta cttgttcttc taagtctctc tttagctgaa agtttgttgc 300

tttacgannc ttcgatttac ccttacttgt tcaagttcgt catcaaattc gtaagtatgg 360

gcataagnag c 371

<210> 1806
<211> 333
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-H11

<400> 1806

atctggttca ggttctactg gaagcggtct cggtgcangt acagggtcaa taccatcaag 60

tggttcangt cctggtcttc taccaantgc cagttctgtt cctggttctt tagcgggtgg 120

tggttcaggt tccttgccta ccactggttc agccacnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnccangtgc tgg 333

<210> 1807
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-H4

<400> 1807

acgcgtccgc ccacgcgtcc gcggcgaaca acgagtacga gtttctgagt gagattgggc 60

tgacttctca caacttggga tcttacgttg ctggcaaatg gcaagccaac ggacctcttg 120

tttcaactct caatcctgct aacaatcagc caattgctca agttgtggaa agcttctcta 180

gaggattacg agcaaggttt gaaagcttgc gaggaagcag ctaaaatatg gatgcaggtt 240

acggctccta agagaggtga tatcgtcaag acagattggg gatgcactaa gatccaaact 300

tgactatctt ggtcgtcttc tttctcttga aatgggaaag atncttgctg aaaggtattg 360

ggngaaattc aagnnagtta antgncatgt tgtgaatttt gccgtttggg tttnggcccc 420

a 421

<210> 1808
<211> 364
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-A1

<400> 1808

acgcgtgggc ggacgcgtgg gcattaatca tcatcttttc ttcacagaga ggaaaaaaaa 60

aaaatggcga cagattctca accaaaccaa aagctaacgc ttccgttaaa aacaagaatc 120

gctctcaccg ttatctccac catgaccgat aacgctcaac gtcctgacgg aactatcaac 180

cgccgtttcc tccgcctctt cgatttccgt gctcctccca atcctaaacc cgtcaacatc 240

gtctccacct ccgatttcgt cgtggatcaa tcccgtgatc tctggttccg attgtacact 300

ccacatgtct ccggcgataa aatccccgtc gttgttttct tccaaggggg ggggttcnct 360

tccc 364

<210> 1809
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-A2

<400> 1809

cgttacgctg nccggtaccg gtcanagaat tnncgggncg acccacgcgt ccncaacggg 60

acccttgaaa ccgtgtagcc atcttgctta atgattagag tcttaaagct gtgctctttc 120

ttcatcgatt tgagcaagtg atcttggaag gctcttgagt tctgaattcc ttgtaagcaa 180

tcatggcagg gaaaagagaa aactttgtga gggtggatga tttggactct aggttaccat 240

catcatctgt agccttccaa cagaactacg cctccaattt cagtggacaa cttcatccta 300

ttcatgcaag caatgaaact tctagatcct tcaagaaagg tatccagaag ggttccaaag 360

ggcttaagtc gatcggacgt tcacttggtt tcngtgttta ncgaacaatg ttcccaaa 418

<210> 1810
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-A4

<400> 1810

ggaactattg tatttacgag cattctactt atacgtggac tttgggccgg agtagcatac 60

atgcaagaga gccgcaacaa taggatcaat gaactcgctg atgatcctcg tgcatggaac 120

gggatgcaac cagtttcctg atgaattcgc tttacacttg tagaaatcag aattctgact 180

tttgggagag ccataattgt ttaggttctt ccaaggcaat aaaaccacag ctgagttcag 240

aatcagaaag cagttacagt ggatgttcat tggcaatgtc tgatgattta gtaagtaaaa 300

aaagtgtaat attgtagcat tcaccaagtc agctatgcng ggtgtgtnac ncaaccgggg 360

aactnannnc tccccccaang gggaccaggt tttctaagtt ccaaaanaa 409

<210> 1811
<211> 387
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-A5

<400> 1811

taagtcncgg gccgacccan gcgtcaacgg acgcgtgggg tccatcttgc ctcctccgat 60

tatccaaggt cacaattcgt cttctccttc ttcagattcc tctctaaacc ctagctctga 120

gcatggcaac aannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnngg acattctgaa tcctctcaca atttctccgg 240

tggctctagg gaaccgagtg ttgcagctga ggagggacat agccgtggat cttccaaaga 300

gatgacacaa aatgggagca gggaaggana gtttttcccc aagctaatgc agataangcg 360

tgancatttt ccgatatgat tgggccn 387

<210> 1812
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-A7

<400> 1812

ttcacaaaac tcaccttgaa gagaggatta agaagattgt gccggagttt ccaagaacag 60

cttctagcaa gctactgaga agagtcttga gagatcagat taagcaagaa ctactatcct 120

tacgaagtcg aatataaagc cttgatctta agtttaacta gaataaaata agatctgctg 180

agtagtagtt gatctacaca tgattgggta ctgctcggnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnntttgg tgtatatatt tcatatcaag attaaaatcc 360

taaatttncc ncaaaaaaan nnnaaaaaaa aaggggcggc cgctc 405

<210> 1813
<211> 401
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-B8

<400> 1813

tagggttttt cgcctctttc tcaactctct tctcgaaaac ctagcaggtc gtctctttct 60

cagttctcca tgggaaagtc taaatccgcc accaaagttg ttgcagagat taaggccact 120

aagcctttga agaaaggcaa gagagagcct gaagatgata ttgacaccaa agtgagtctt 180

aagaagcaga agaaagacgt gattgctgct gtccagaagg aaaaagctgt gaagaaggtt 240

cctaanaagg ttgagagctc tgatgattca ngattctgaa tctgaggaag aggagaaggc 300

taagaaagtc ccatccaaga aggctgcttc aagcagtgat tgagtcatcc tgatgantcn 360

tcttcanang ntgaannctg nacgcaaagg naagggccgt t 401

<210> 1814
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-080-Q1-E2-A9

<400> 1814

cggcgaaaca gccgatgaag tctcgcctga atcttctgta cctttcaccg gcgattgact 60

tcacttcaga atcgagagag aagaaatcga tggaaaacta aaaatagaaa gagtttcaaa 120

ttctcgctct ctcttcaaaa ccgcaaatca agggaacgag agacgagaga gagagatgag 180

taaacggaat ccgaagattc tgaagatttt tctgtatatg ttacttctca actctctctt 240

tctcatcatc tacttcgttt ttcactcatc gtcgttttca ccggagcagt cacagcctcc 300

tcatatatac cacgtttcag tgaataacca atcggcgatt cagaaaccgt gggccgatct 360

taccttctta cctcccaagg gacgccgccg caaagggaat ccaacaactg ggtc 414

<210> 1815
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-G4

<400> 1815

gaaacaaagc cgtacaacga gggctcttcc tgggcaacaa aaccaccatt ttcgttttat 60

ctcaatcttc gtctctttcg aaagatctaa ccacaacaac tccttaagat ggataagtat 120

caacgagtgg tgaagccgaa agcggatacg ccgattgatg cgaatgagat tcgtatcact 180

agtcaaggca gggcacgaaa ctacatcacc tatgcgatga ctcttcttca ggataaaggg 240

tcaactgaag ttgtattcaa ggcaatggga agagctatca acaagactgt gaccattgta 300

gagctgatta agagaaggat ccctgatctt catcagaaca catctattgg attcacaaga 360

catcacagac acatgggaan caacagagga aaggcntcct aactttgggg actacaan 418

<210> 1816
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-G8

<400> 1816

ccgggtcgac ccacgcgtcc natttaatcc tcaaactggg ctacaagacc acactgctcc 60

atttaatcat caaactggct acaagacctc actgctccat ttaatcctca aactgggcta 120

caagacctca ctgctccatt taatcctcaa actgggctac atgacctcac ttctccattt 180

aatcctcaaa ctgggctaca agacctcact gctccattaa atcctcaaac tgggaatcgc 240

aatgacccga gaagctcctc ctttctgtat aatcaaggcc attttgactt ctctggtggt 300

aatgatgatg atccttatgg cttttctgct tccatgagac atagaccaca agtgtanang 360

aaagaagaaa ganaagagaa gcaggattta caaatccaac agatgcaaat cagaccggaa 420

tataaaggag gagcaangca ccttttgtt 449

<210> 1817
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-H1

<400> 1817

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gctaaggata aagaaaataa atagtaaatg gaagggtttc ttcgctttct tgtagcgaaa 120

gccatcttat tggctttagc atcttcattt gtatcttgtt acgacccaag tcctcttcag 180

gacttttgtg ttgccgtcga tgacgctagt ggtgttttcg tgaatggaaa attctgcaaa 240

gacccaaaat acgtgaaagc tgaagacttt tttacttccg gactaaacat cgccggaaac 300

acaataaacc gcgttggctc caacgttaca aacgttaacg ttgacaaaat ccctgggact 360

caacaccctc ggagtgtctc ttgtccgaat tgactttgcc ccgggangtc aaaacccgcc 420

acacacgcaa ccacgagcca ctgagattcc ccctgggtgt ncaaaggaaa ntcctaaacc 480

ggttt 485

<210> 1818
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-H11

<400> 1818

ttcccnaggc cttttctcaa ccttgattct tanccatgga gttctgggga attgaagtta 60

aatcaggaaa gccagttaca gtgactcctg aagaaggcat tcttatccac gtttctcagg 120

catcgcttgg agaatgtaaa aacaagaang gagagtttgt gcctttacat gtaaaggttg 180

ggaaccagaa cttggttctg ggaactctat cgactgagaa catccctcag cttttctgtg 240

atttggtatt cgacaaggag tttgagcttt ctcacacttg gggaaaagga agtgtttact 300

ttgttggata caaaactccc aacattgagc cacaaggcta ttctnaggaa gaanaggaan 360

aagaggaaga agttcctgct gggaatgctg ccaaggctgt agctaaacca aaggctaanc 420

ctgcagaagt gaagccagct gt 442

<210> 1819
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-H3

<400> 1819

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tggacgtatg tgaatgaatc tcgctatcaa accctaattc aaccatcgcc atgaaggtgc 120

tcggagaagc ttcttcatat ccttacagat cctgtatcat cgtcgtattt ctctccgttt 180

ctctcttctg gctccgtccc agcacttacc atccccagca acaaaatctc aatccagaga 240

acgtaactcg tttggagtct gagaatgaaa cgaagactaa ctatataatc cgatttaagc 300

agtataagcc ggcgaaagat catcgaattt acctcgaatc gaaggtccga tccggtggtt 360

ggggttggat cgagaggatt aacccggcga cgaagtatcc gactgacttc ggtgttcnat 420

ggattcaaga aagccggaaa naaggcnttg gttgganaaa atnaaaaggc tgaaaatggt 480

<210> 1820
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-H4

<400> 1820

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ttcttcggtg acttccatgg ctccgcctgt ctctgatgat tccctacagc ctcgagatgt 120

ttgtgttgtg ggagtggcgc gaacgcctat aggggacttc cttggctccc tctcgtcttt 180

gactgctaca agacttgggt ccatagccat ccaagccgca cttaagagag cacatgttga 240

tccggccctt gtggaagagg tcttctttgg caatgtctta actgccaatc ttgggcaagc 300

accagcaaga caggctgcac ttggtgctgg gattccctat tctgtgatct gcaccactat 360

caacaaagtt tgtgctgcan gaatgaaatc tgtaatgcta ancgtctcaa agtatccaac 420

tcggctttga atgatattgt tgttgcctgg gtggggatgg gagaancaat gtcaaacgtt 480

a 481

<210> 1821
<211> 375
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-079-Q1-E1-H5

<400> 1821

aaaagtcttc ttctttttt acaagtctga gaattttcta cagaaacaaa aatctgattg 60

tttttcccac tttgcatctg ttttgaggat gccagctacg gattttcaag gatcatttgg 120

aaggtcgttg ctaagtttac ggcgagacca agttgactca tcaacagtcg tctccggaag 180

tagtagccac cacgagccaa gcaccatgga ggttgagcta gattcgtttc aaagacaagt 240

cgctgagaaa ttcatcgatc tcaacgcttc ttcaaacgac cttctctctc tcgaatggat 300

cggaaagctt cttgattctt tcctctgttg tcaagaagag tttcgagcta tcgtattcaa 360

ccaccgatnt caaga 375

<210> 1822
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-H6

<400> 1822

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gccccaatct agttcaaatt gtccgtaaac aagttgccat cgccctgaag gccgagatac 120

ggatggctgc ttctctcatt cgtcttcatt tccacgactg ctttgttaat gggtgtgatg 180

cgtcgttatt gttggatgga gctgacagcg agaaactcgc gatcccaaac attaactctg 240

ctangaggat ttgaagtaat tgatacaatc aaagccgctg tggaaaacgc atgtcctggt 300

gttgtttctt gtgctgatat cctcactttg ggccgctcgt gactccgttg tattgantgg 360

aaggcctggg tggaanagtg gcattaagaa agaaaanatn ggtttggtgg gaaatccaga 420

c 421

<210> 1823
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-A1

<400> 1823

gggcggacgc gtgggcatta atcatcatct tttcttcaca gagaggaaaa aaaaaaaatg 60

gcgacagatt ctcaaccaaa ccaaaagcta acgcttccgt taaaaacaag aatcgctctc 120

accgttatct ccaccatgac cgataacgct caacgtcctg acggaactat caaccgccgt 180

ttcctccgcc tcttcgattt ccgtgctcct cccaatccta aacccgtcaa catcgtctcc 240

acctccgatt tcgtcgtgga tcaatcccgt gatctctggg ttcccgattg tacantcnac 300

atgtctccgg gngataaaat cccccgtcgt tgttttcttc cacggcgggt ggtttcgctt 360

ttccntcagt ccgaantggc gttagccttt a 391

<210> 1824
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-A2

<400> 1824

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tttcttcatc gatttgagca agtgatcttg gaaggctctt gagttctgaa ttccttgtaa 120

gcaatcatgg cagggaaaag agaaaacttt gtgagggtgg atgatttgga ctctaggtta 180

ccatcatcat ctgtagcctt ccaacagaac tacgcctcca atttcagtgg acaacttcat 240

cctattcatg caagcaatga aacttctaaa tncttnaana aaggtatcca caagggttcc 300

aaaagggctt aaagtccatn ggacgttcac ttgggttccn gtggttaacc aagcaatgtt 360

nccaaaaaga ccttaaaagt atcngaaang aagatatttg attcctcaag gatna 415

<210> 1825
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-A4

<400> 1825

ggaactattg tatttacgac gcattctact tatacgtgga ctttgggccg gagtagcata 60

catgcaagag agccgcaaca ataggatcaa tgaactcgct gatgatcctc gtgcatggaa 120

cgggatgcaa ccagtttcct gatgaattcg ctttacactt gtagaaatca gaattctgac 180

ttttgggaga gccataattg tttaggttct tccaaggcaa taaaaccaca gctgagttca 240

gaatcagaaa gcagttacan gtggatgttc aatgggcaat gtctgatgat ttagtangta 300

aaaaaagtgt aatattgttn cattcaccaa gtcaagctaa tgnctggtgt gtagctcaaa 360

ctggggaact aagtcctccg ccaannggng gaccaatggt tttcntaagt ttc 413

<210> 1826
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-A8

<400> 1826

tctctcgctc tcctcccccc ttccgccgat cgtcctttcc ccaccgtcna gtttttccct 60

atccatctcc gggctttacg ttgcacacca gatgtctgtt gatctctgca agaagaatcc 120

atcttttctt tggtgtgact gtggttatat gagcaggggg aggttgtggt gttttcagat 180

tatcctcttc angcactgga cttgacttgt cntcaattcc tcgacnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngatcaaagg 300

gtattcgttt ctgcggctcc tgtttacngt gaacttgaag actaagtttt ctttgcnaaa 360

ctctcactta cgggtgaaag agttacaggn a 391

<210> 1827
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-B1

<400> 1827

ttacgcctgt cngtacgcgt ccgnaaattc canggtcgac gnacncgtcc gccacnatct 60

tcttccaatc tcaaatctcc cattttctag tgtttcattt tgatccttct tccttcctct 120

ggagatttct caaatctctt caacnatttt gatttgccgc catgtatcga cgcgccactt 180

ccggcgtgcg ttctgcctcc gcaaggcttt cttcttccct ctccaggatc gcctctagcg 240

agacagcttc ggtttcggct ccanctgcgt cgtcgcttcg caatcagacg aaccgatcta 300

agagtttctc ctcggctctc ngctcctttc gagtttgctc tgcttccacg cggtggancc 360

atggtgggag ctggggatcg cctgctagcc ttcgcgctca agctaggaat tccactccgg 420

ttatggagaa atttgaacgg ggaatacgca aaccaagggg t 461

<210> 1828
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-G2

<400> 1828

tacgaccgtg gccttatcgg agccactcat gattggtgtg aagcctttga cacataccca 60

cgaacgtttg atcttatcca cgcatggaac accttcacag aaacccaagc acgtggatgc 120

agctttgaag atctgcttat cgagatggat cggatactac gcccagaagg atttgtcata 180

attcgtgaca caactgacaa tattagctat atcaagaagt atctgacatt attgaaatgg 240

gataaatggt ccacagagac aactccaaaa ggtgatcctc tgtcgaccaa agacgagata 300

gttttgatcg ccagaaagaa actttggagc ttgcccgcca tttcaagtgt cctgaaatct 360

aacagtcaac aggcgaatga atgagattta caagcatcaa gaaggcgcgt anctgaagga 420

aaatac 426

<210> 1829
<211> 359
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E1-B11

<400> 1829

gtcacttttc tttctccaca ctttccgcaa gattgttctg ttcttcaaac gattctaaga 60

tgaatggaga agaagtgaaa acgagtcaac ctcagaagaa gcttcagaac cctactccac 120

gtttaaacga gaggattctc tcatctttgt cnaagagatc ggttgctgca catccatggc 180

atgatcttga aatcggacct ggagctccag tgattttcaa tgtggttatt gagatctcaa 240

aggggagcaa agtcaaatat gaacttgaca aaaaaacagg tctcatcaag gttgatanga 300

ttctttattc ttcggttgtg tanccctcac aantaacggg gtttgtccca cggcacacn 359

<210> 1830
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-D12

<400> 1830

gtccgaggct ctccacggna attccgactt tggccaaagc nccaaattnc ggtggngctt 60

tncccggngc nacnagcttc ccncaggtca ncacnaccgc agcttctttc aaccantcnc 120

natgggaaga gatcggacgg gtggtgtctg atgaggcaag agctatgtac aatggtggcg 180

tggccggtct gacatattgg agtccgaatg tgaatatctt gagggacccg cggtggggcc 240

gaggccaaga aactcccgga gaagatccta tcgttgccgc aaaatatgcc cgccaagcta 300

cgtccggggg aattcaaggt actgctgccg gtaaccgcct taaagtcncc gcatgttgca 360

aacattacac tgcttaanga tcctgataan tggaaagggg tcaaccgttt ccaacttnaa 420

cgctaaaggt cacccaacaa gatttagag 449

<210> 1831
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-078-Q1-E1-D3

<400> 1831

acgcgtccgc tctctcacac acacccaatt tgcatttctt tcgtcatcat catctactct 60

ttctgcgttt ttcccagctg aataatctaa acaaggaaaa gtaaaacaga gtaccaatct 120

cagattcatc agctccactt gaatttaaag tagccataac tgttcgatca taggatggaa 180

gaagcaactc aagtaacgag ttctgaggtc cctgtagtga aaggtgatgt tgatgacctt 240

aagacagctg atatttccgt caaggctgtg aatggagaag tgccaaagga ggagaaagaa 300

gaggaagatg gggaattcat aaaagttgag aaggaagctt ttgatgccaa aggatgatgc 360

ggagaaagca gatcatgttc ctgttgaaga gcaaaaggaa gttattgaaa gaagctcgag 420

tggttcacaa gagagaacta catgaatcac aagaaaaa 458

<210> 1832
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-D4

<400> 1832

acgcgtccgc tttgttaatc agcaaaaacc ctagaatatc ttagagcttc gcttcacttt 60

caagctcgag actttgagaa agatgcctcc gaaagccaaa gctaaagatg caggtcccgt 120

agagaggcct attcttggcc gtttctcttc tcacctcaag atcggaattg ttgggttacc 180

aaatgttgga aaatctactc ttttcaacac tcttacaaag ctttcaattc cagctgagaa 240

tttccccttt tgtaccattg agcctaatga ggcacgtgtg aatatccccg atgagaggtt 300

cgattggctt tgccaaactt acaagcctaa gagtgagatt ccagctttct tgggaaattc 360

atgacattgc tgggcttgtt agaggagctc atgaaaggac aaggtcttgg gaaacaactt 420

ccttgtccca ataattccgt gcaagtttga tggn 454

<210> 1833
<211> 519
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-D5

<400> 1833

ctggtnacct gttctatggc ccggaattcc cgnaatcgac ccacgcgtcc gtgaattttc 60

acngncgacc tctctctctc atctactaag ctctcctccg agtattgttg gcttcagacc 120

aaatcttctc cggcgctgta gcgtttcccc cgtttccgct ttttaacctt tgcaaacaat 180

gantgggcga ttttctcggt caatctatgt tggtaacttg cccggtgaca ttagggaaca 240

tgagattgaa gatatctttt acaagtatgg ccgcattgtc natattgaat tgaaggttcc 300

acctcggcct ccatgttatt gctttgttga gtttgagcat tctcgggatg ctgaagatgc 360

catcaagggc cctgatggct ataatttgga tggctgtcgc ttgaggggtg aagcttgcca 420

catgggtggt ccgangacaa gtccntcnaa gtgattcgtc cctgngtggg ctaactggtt 480

ggtgggtggc aagcngctaa tggntgggtg gaaggtggg 519

<210> 1834
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-D7

<400> 1834

acgcgtccgt gaattttcac ggccgacctc tctctctcat ctactaagct ctcctccgag 60

tattgttggc ttcagaccaa atcttctccg gcgctgtanc gtttcccccg tttccccttt 120

ttaacctttg caaacaatga gtgggcgatt ttctcggtca atctatgttg gtaacttgcc 180

cggtgacatt agggaacatg agattgaaga tatcttttac aagtatggcc gcattgtcga 240

tattgaattg aaggttccac ctcggcctcc atgttttgct ttgttgaagt ttgagcantc 300

tcgggatgct gaagatgcca atcaaagggc cgtgatggct ataaatttgn gatggctgtc 360

gcttgaggnt tgagccttgc acaatggggg gtccnangac aagtcctcaa ggtnnttcgt 420

ccnntggtgg gcctacnnnt ngttngtggc aagccggcta atggttggtg gang 474

<210> 1835
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-E11

<400> 1835

ctggtttgcc tggncctacc ggtcccggaa atcccgggnt cgacccacgc gtccgatctn 60

accaaagtct gtgataattt ttccgacaga agtttcatct gagaaaagat ggctacattt 120

gcacttccct tctgcgaaat tcccgaggat ctccagctcc gaatcttatc cctcctcaca 180

ccagcggaga tctccagctt cgcctgcaca tcgaaacgct tcgcctcgct atgtcaagaa 240

gacggcaaaa tctggcacgt tatgtgcgat cangagatgg gggaagaaaa ctaagatcca 300

gaaatgggca aacggtcaaa tcccttatag gacaccttta caagactcta aagggattgg 360

gngaatctna ntggcttctg ggcgtctctg cggcagancn aatcccgccc gcttcatcgc 420

cgcccgcttg ttttcttcga atgggggtcc tccntttaaa attgggattc nacannttta 480

acccaccggg aagaagatn 499

<210> 1836
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-E12

<400> 1836

acgcgtccgc aaaagttgga atcgtgcacg cctctcgant tatctcnggc nccnaanctc 60

tctccnggtg agnttctgta gaagaaaaaa tttcaatctt tgttggattt tctgggaaaa 120

actcagatgg gtttgctctg aatcgattgg aaaatcaaac cggtgtggac tctgcaaagt 180

tggttgatat gaacagtctt gtgagaagaa aacaanttga ttctgttcat cttatcaaaa 240

acgatggacc tcatcagctt gccaagaaac tatccgccgt tgatcttgtt gctattggag 300

ttgggacaac aattggagca agagtgtata ttcntgtggg aacggtagct agagagcaca 360

cangacctgc tcctgctgta tcattcctca ttgctggagt actgctggnt ctctctgcct 420

ggttgttacg ctgagcttgc ttcncgttgt caacctgcct ggggaagtgc 470

<210> 1837
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-E2

<400> 1837

tctaccctat acttatgaag aagggctcaa caaccgtggc tctctatggt ttaggaaaca 60

tcagggatga acgtctcaat agaatgtttc agaccccaca tgctgtccaa tggatgaggc 120

ctgaagttca agaaggatgt gatgtttctg actggttcaa cattctggtg cttcatcaaa 180

atagggtgaa atcaaacccc aaaaatgcaa taagtgagca ctttcttcca cgtttcctcg 240

acttcattgt gtggggccat gagcatgaat gcctaatcga cccccangaa ggtatctggg 300

aatggggctc cacatcacac aaccaggatc ttcctgtggc aacatcactt atttgatggg 360

gaatcgaagc caaaacaatg ttcctcccct taaaaatcaa aggggaaatc aataaccgt 419

<210> 1838
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-E4

<400> 1838

acgcgtccgg tanntccttt tttctctatc tcgctttctc tgtttcacca cagtcatggc 60

gagtcggcga atcttatcat cgcttctccg ttcttcttcg agtagatcta cttctaaatc 120

ctccttgatc gggagccgaa acccgaggct tttatccccc ggtcccgcgc atggagccgc 180

tccatgtggg actctccttg gccgagtcgc cgagtattcg acttcttctc cggctaattc 240

ggctgcacca tcttctgctc ctgctaaaga tgagggaaag aagacctatg attacggtgg 300

caaaggcgcg atcgggcgtg tgtgtcaggt taattggtgc aattgttgat gttgagattc 360

naagattaag gaggggattg ccccgattna tgacatctcc tcgaaggtaa caggttaatc 420

caacaaaggg ttggnccttn ganggtgtcc ncaatcaact tgggt 465

<210> 1839
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-E5

<400> 1839

acgcgtccgg ggtttttctc atccacatcg gattttagaa taccgtctag tagctcgatg 60

aatcanactt tacctcggtg tcatctttgt aacgagaagt atgagcaaga agtcaccgcc 120

tttgctaagt cggggtcgat gatcgatgat cagtgttcgg agaagttacc ttcttggtta 180

cgaaatgtgg agcatgaaca cgagaaagga aatctcggta aggttaaaag atgatccaaa 240

cgtattancc tctcggattc ccgctctgca gaagaaatgg gacgacattt gtcaaagaat 300

ccatcaaact ccggcgtttc ctaaactcag ttttcagccc gtnanaccgc aagttcccgc 360

ttcagcttgg ntcttctagc cangaccaag atgagtcttg ggagcccaac tgagaaaatt 420

gttttgcact aggacctctg aaaagctttt aaggggatgg gggct 465

<210> 1840
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-E6

<400> 1840

acgcgtccgc ttttaactct cggtcaagta tganaaagta ccanagcgaa gaagatgaag 60

atatctctga acagaaacct cgggcaaaag atanagcagc cagtgggcaa caatctgttg 120

ggcaagcatt tcttctcggn gctcccaagc tagaangctt caacccaaca ggggacatgt 180

cttcttctat tactccgcgg agtgcagcat cggttccaan ancatcaggt aaagtttcag 240

acacctcttc tgggaggcga agatcagacn agtcgctcgc acaatctgtt ccaaattttt 300

ctgaacttat aanggnaaac acgaaaccat cttctttaag ctgtcaaaac tactatgcga 360

tnacangtga aaagtnntgg tcgcaccaag aatatcnagg gnagattcac ttctccnaag 420

acctccgatt attnagggaa agctcctctg gggaanata 459

<210> 1841
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-E7

<400> 1841

acgcgtccga ttcncttctt ctccaccgaa tatatctttg tctttgccct ttcccccttc 60

cttcgatgtg atacctaatc aaccactctc aacaccatcc aaccaccacc tccagagcaa 120

agaannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnattct gttggttttg caatggtttg gaggttcgtt aatggcgtca 240

tagactcggg agattaaggg agaacaagta ctctgcatct tctggatttc tcactatttc 300

tccttctcta gaggaatagg cgagaaattg agattaataa aaaggggtgt tttttgggtt 360

cccctccgtt tgtataaaag cctgccgctt cttaagggtt ctttggnaat tcccaaagtg 420

atgggaggaa aaatcctggt tacttcgcat gaanctaatt aacgaa 466

<210> 1842
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-F10

<400> 1842

acgcgtccgc ttcnttctac aaatgggttt ccaaagatct atctcttctt cttctgcatt 60

aaaatggctt ggatttgtaa cagcggtttg ggttcaatcc atctccggca acaactacac 120

tttttcaaac tactccggtg ctcttaagtc tctcatgaat ctcaaccagc tcgagctcaa 180

caacctctct gtcgctaaag acgtcggaaa agcctttggg atcctggctg gccttgcctc 240

tgaccgtctt cccactccgg tcatcctcct tattggttgc tttgaaggtc ttcttggtta 300

tggtgtacaa tggctcgttg ttagccgcac catccaacca atcccttatt ggcagatgtg 360

tatattcctc tgtatgggag ggaacagcac aacgtggatg aacacggcgg ttctagtgac 420

ttgcatacgc aattttcgac gaaaccgtgg tccggtctcc gg 462

<210> 1843
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-D11

<400> 1843

tccggagctc tagattcaga taagaacaat ggcgattccg atgcctactc gccagctatt 60

catcgacggc gaatggagag aacccatctt gaagaagcga atcccgatcg ttaatccagc 120

tactgaagag gtcattggtg atattcctgc agctacaacg gaggacgtgg atgttgctgt 180

caacgctgct cgaagagcat tatcaaggaa taaagggaaa gattgggcca aagcacctgg 240

nagctgttcg tgctaagtat ttacgtgcta ttgctgctaa ggtaaatgaa agaaagacgg 300

atctggcaaa anctcgaggc gcttgattgt ggtaaaccat ttggattgaa gcagtatggg 360

atatggatgt tttgcnggat gttttggaat ttaagctgac cttcctgaag gattagatnc 420

taagcagaaa ngcaccagtc cccgctttcc aa 452

<210> 1844
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-A11

<400> 1844

acgcgtccgg tttgataaat caccattggt ggataaanat gtgtttgtgg ctccgagtgc 60

ttctgttatt ggtgatgttc agatcggaaa aggctcgtcg atttggtatg gctgtgttct 120

tcgaggtgat gtgaataaca tcagtgttgg atctgggacg aatatccaag ataatacgct 180

tgtacatgtt gcaaanacca acataagtgg caaggttcta cctactctga ttggggacaa 240

tgtaacagta ggtcacagtg ctgtcattca tgggtgtact gttgaggatg atgcttttgt 300

tggtatggga gcaacactac ttgatggtgt ggtggttgag aaacatgcca tggttgctgc 360

tggttctctt gtgaaacana acacgcgaat cccttctgga gangtgtggg gaagaaatcc 420

aacaangttc atganaaagt taacagatga aagagatagt atacatctca can 473

<210> 1845
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-A2

<400> 1845

tctctttgct tcgattccca aaacgactat ttccaaaagg gtttaaagaa gttatgaaca 60

ctaatccagt gactaatggg tttgttaaac ctgttcctac tgaagaagaa caagcaaaga 120

ttgaggaagt gaggaagcta ttaggtccat taccggagaa gctttcgagt ttttgttccn 180

atgatgcagt tttaaggtat ctaagggcaa ggaattggca tgtcangaaa gctactaana 240

tgcttaanga aactttgaaa tggagagttc aatacaaacc tgaggagatt tgttgggagg 300

aantagctgg tgaaccancn gacagggaag atatatagat cgantttgtg tcgaataaac 360

ttggaccgac ctgttctcat tatganaccg antgttngag aattctaaaa tccgggtgaa 420

caangcc 427

<210> 1846
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-078-Q1-E1-B1

<400> 1846

atcttaacac caatcccaaa tcagaaaaat caaaactttt tattttattt tatcaaaatg 60

gcgcttatga atggaagcat gaatctatca tcggtcaaat catcgatgat caaccaccgt 120

caaccaaact tctcctccgc cgtctccaga cccacttctt tccggatctc cgccgtgcaa 180

accgacccaa aaacaccagc tgcttcatcg gcgtcggcgg cgacgacgac tccggcaacg 240

ttgacgaagc ccgttggagt taatgtgggt aaaggaaaat gggcaccaga gagttggagg 300

acgaagaaag ctttacagca accggactat ccagatttag ctgcgcttga agctgtgcta 360

gagacgatcg aagcttttcc tccgatcgtg ttcgccggag aagctagatt gcttgaggaa 420

cgattaggac aagcagcgat gggt 444

<210> 1847
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-B10

<400> 1847

acgcgtccgc ctgtctgttc actggaggtg aattttgatt tttttggccg atcggatttg 60

agtttttgaa tctctgattg ctgacgaaaa tgccggcgtt ttacgganga aagcttacga 120

ccttcgagga cgatgagaan gagagcnagt atggttacgt tcgtaaggtt tcaggtcctg 180

ttgttgttgc cnatggtatg gccggtgctg ctatgtatga tttagtgcgt gttggtcatg 240

ataatttgat tggngaaatc atccgtcttg aagganattc tgccaccatc caagtttacn 300

aggaaacagc tggattgaca gttaatgatn ccgttcttcg aacacacaag ccactttctg 360

tggagctcgg gccaaggaat attgggaaat atctttgatg gaattcagag gcctttgaag 420

actattgcaa gaatatccgg tgatgtgtac attcctncgg gtgttgt 467

<210> 1848
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-B6

<400> 1848

acgcgtccgc tttnaatcat ttcttcgaga gaggtagcga gaaagggatc gccttttctc 60

actctctgcg gattctcaat tttgggcaag aaggcaagaa cagtttttat cgcaattgag 120

tcttgaagac cacaaggatt tgatcacatt ggtgcttctg cctgtttatc tgagtttgag 180

gacaagaact tctggggcgt ttataatttg ccatggctag taatgagaat ctaccaccca 240

atgttatcaa gcagcttgcc aaggagctga aanagtcttg acgaatcccc tccaagatgg 300

catcaaggtt gtggtaaatg accaagattt ctcacaaata tgtgctgata attgaangga 360

ccanttgggt actccctaat gaaaaacggg cctttcccgt aangaaagtt tggccttgtc 420

aacatnaatt tccaacaatt ccgccccccc aaaagggcta ctttcaatga cnaaagaatt 480

t 481

<210> 1849
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-B7

<400> 1849

acgcgtccga atgccttctc caagtcagtt tctttcctca ttcaacagtt tctcttcttc 60

ttcctctgct taaacgaaac cctcaaagaa ataaaaaaaa gctctcaaga atggcgaaca 120

aaccaagaac cagatgggtt cttccttaca agaccaaaaa cgttgaagac aattactttc 180

ttggtcaagt ccttggacaa ggccaattcg gaaccacttt cctctgtacc cataaacaga 240

caggtcaaaa gcttgcctgc aaatccatac ccaaaaggaa gctcctttgt caagaagatt 300

acgacgacgt tctgagagag atccaagata atgcatcact tgtctgaata ccccaacgtt 360

gtccgtataa nagagtgcgt acgaggacac caaaaacgtg catccttgtg atggagcttt 420

gtgaaaggan gtgagttgtt tgataagaan tgtgaaagag aagtcat 467

<210> 1850
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-C12

<400> 1850

ggccnggaat tcccggatcg acccacgcgt ccgcccaagc gtccggagaa atctaccgtc 60

gagaaggagc ttcagtctat tatcagtagc tccggtaatg gttcgcttaa ccgtgangct 120

tttcgaaaag ctgttgtcaa tactctcgag cggcgtttgt tctatatccc ttcgtttaag 180

atctacagtg gcgtcnctgg acttttttgat tanggncctc ctggctgtgc tattaaatcc 240

aatgttctca gcttttggcg tcaacatttc attcttgang agaacatgct agaagttgat 300

tgtccatgtg tgacaccana ggttgttctc aaggcatctg ggcatgtaga taagttcact 360

gatcttatgg gttaagcgat gagaaaactg gcacatgtta ccgtcctgac cacttgctca 420

aaggattatt tgtaccgaga agctgggggа aagatnttan atctcctgcc gaaaaaactg 480

ccaaan 486

<210> 1851
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-078-Q1-E1-C2

<400> 1851

gcccacattt taaacccatt ttagcctttt ctgtttccgc cgccgactga tcggaataat 60

cgatcaaaga gagaacaact gaatcttcgc cggatactac gccgatgacg attgcggcag 120

cgccagcacg ccagacagat cgatcagcca ctggtttcaa ccctgcttac gtcacgacgg 180

cgaaggcggt gagcgttccg gttcaagttc ctccggcgac tgtggtttcc gaaggattag 240

gtaaagatgc gttgatctca tggttcagag gagaattcgc tgcggcaaac gcgataatcg 300

acgcgatgtg ctcgcatcta aggatagctg aagaagcggt atctgggatc ggagtacgaa 360

gctgtattcg cggcgatcca tcgccgtcgt cctgaattgg atccctgttc ttcagatgca 420

gaagtatcat tcatcgctga 440

<210> 1852
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-C3

<400> 1852

acgcgtccgt tcnagttata cccaaaaatg atcagaatcc agcgtcaggt tttgtattca 60

gcaacaaaaa taaggttctc gataacagtc atacacctgt ggggacttgg ggtaaccaac 120

tcacctatca gccggttatg gccctaaccc agagtcagct tgatgaagcc atgaaacccg 180

tatctcatct ttcatgtgtt tctgttgaga atggtgccaa ccgaattagc gagtcaaatt 240

cgacatcaac gtctgttgtg ccaaagaaca atacttttc aagcagcaca agtccaataa 300

attcattgct tgctgagggc aaaattcaat ttgttacatc ttccactgtt atccctccct 360

gtggtggggc gtacagagga aaggatantc tttatatttt gaaanaagat aacaaacatc 420

gaaaatcaat caaccaactg ggcatagaag atttgtgaag can 463

<210> 1853
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-C4

<400> 1853

tggttccctg gcctaccggt ccggaattcc cgggtcgacc cacgcgtccg cccacgcgtc 60

cgcctaaacc cggaaccctt agacacgcgg tgatccaaga cgagccacta tggatnatct 120

tcgcgcgtga catggtcata aaactaaaag aagagctgat tatgaactct ttcangacta 180

tanacggccg tggagcgagc gtccacattg ctggtggcgc gtgtatcacc gtccagtacg 240

tgaccaacat catcatccac ggtgttaaca tccatgactg taaaagaaag gggaatgctt 300

acgttagaga ctctccgtcg cattatgggt ggaggacagc gtctgacggt gacgccgtct 360

cgatttttgg tggctcccac gttgtgggta gaccattgct cgttgtccaa ctgcgctgac 420

ggtctgatac acgccaattc atgggatcaa cgggccaatt actatcctct aataactaat 480

ttgngtcacc acaaataang tcatg 505

<210> 1854
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-C5

<400> 1854

acaacaaatc tcaggcggct caacactatc ctcttctaca ttttccaacg atggcctcaa 60

acgcactctc gtctttcacc gccgctaatc ccgctctgtc tcctaagcca ctactccctc 120

acgggntctg cttctccgtc ggtttctctc ggcttctcca ngaaagttgg cggcggcaga 180

gcagtggtcg ttgcagcggc tacgagtggn cacaaacaac atgccgatga ccggagtcgt 240

gttccagcct ttcgaagang tgaacaanag ccgatctggc cattccaatc acatctcatg 300

cctctctcgc tcgccaaagg tttgccgacg ctancgaang gcagttcatt aatgagcana 360

tcaaatggtg ggaatacaac cgtcncccta atgtgttacc aantcaantg gtacngcatt 420

acctttggcc aggagan 437

<210> 1855
<211> 508
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-C6

<400> 1855

gttngcctgt tcgtaccggc ccggaattcc cgngtcgacc cacgcgtccg cccacgcgtc 60

cgctatggaa tcccaaacaa cgtttaagta tgaaagtctt gcgttcacaa agttgtctca 120

ctgtcaatgg actgattact tcctctctgt tcccatcgat gaatcggaac tagatgttat 180

tacaagagag attgacatac tcaagccgga agttatggag ctcctatctt cccagggtga 240

cgatgagaca tcgaagagga aagtgctttt gattcaattg cttcttaant cttggncncg 300

catttcattt tgaaaatgag atcaananta tactagaaca tgcttttcga aagatagatg 360

anatanctgg gtgatgaaaa nggacntgtc tacaatctcc atcatgttcc gttgtcctta 420

agaacatacg ggncacaatt taccatcaaa gttaagacaa ttgtttaatc cggtggcaac 480

aantctaaga atgtnttaac atttattt 508

<210> 1856
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-D10

<400> 1856

cggtccggaa atcccggatc gacccacgcg tccgctccnc gtcttcnctg ttcgtctgcc 60

atatgagtcc ttcccaagcc caacttttct gaaattgaat cttttgggac agagatggca 120

ttaattcaga aaccagtggt gtgcanagac actaataaga tcttcatgaa gcaaatactt 180

gcgtttactg aacaggtgac cattacacag aacagtaagc tctcgccacg cacatggcac 240

aaggaagtga taaacggact aacttgtagt ctctttcccc ctgtcaagaa ttagcaaatc 300

atccttcttt tacatgttct gaancacatc taagatagaa ttgaggcaca nangtcnacg 360

gatgtgtccc atgancaaca ngaaaaaaaa ganacttccc antgaatctg ntaaacnaaa 420

gtcgcaaagc aaactctgtt cacnanggag gagatngngg ccacgccacc tatgggaaga 480

catggaatct ggggctaaaa tttcnc 506

<210> 1857
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-A10

<400> 1857

gggttcattt tgacgttttc tttagatctg ttaataatcc catccatggc ttggtctant 60

cactagtggt gttatctctc tgtgtggaat aaaaagcaag gttttttaat cacttggatt 120

gttttaagat atggcaactt tgaacccttt tgatttgttg gatgatgatg ctgaggatcc 180

aagccagctc gctgttgcca tcgagaagat tgataagtcc aagaaatctg ggacaggttt 240

cgagcttgcc tgctaagtca gctcctaagc ttccatcgaa gccacttcct cctgctcaag 300

ccgtgagaaa agcaaaggag tgatgcctcc acgtggtggt gganggcctt ngaggattta 360

aaccgttggt cnttggtggg ttacaaaccg tgatgattgg taacaatggn tantcaaggg 420

gggatacaac taaaaccctc aaggtgaaag gagaatgttt caaa 464

<210> 1858
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-077-Q1-E1-A2

<400> 1858

acgcgtccga tcgaatcgtt tattttggtt ttcgtttagt ttctcttctt cgagctggtg 60

tttctcaact agttagagag tttctcgatt ggtcagagct gcttttattg aattttcttt 120

ggatttcgtg cttatagatc tttgaaaagt ctgagaatcc tgttttggag ttactgcttc 180

aagttattgg aagaaattag ggtttcgatc caattttaga attgactcaa ggaattccga 240

tattggggtt ttgttgtagt tctgattctc agtgaataag atagaaagat aatcacggga 300

atcgaaggtg gaaacgatgt tcaagatttt gggattcctg agctcttgca ancttccccg 360

ggtttgtcct cctgtaacca cctaaaagaa aaancccтca ataattggct ggaacnaact 420

ccttctncca nttggcnttt caacttcccg gaaaactggn c 461

<210> 1859
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-077-Q1-E1-A3

<400> 1859

accctgccgg tancggtcca aaattcncgg gtcgacncac gcgtccgctt atttcctctg 60

tcttccttcg cttccctctt ctctcaccac aatccnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnagc tctttatcac cattgtctcc 180

tttcttctct atgctccatt gttcttatct tcaccagttc ctgaccctga atctgtcgtt 240

gaagaagttc acaagagcat taatgcgtcg gttgcaggaa gaaggaagtt aggttacctc 300

tcatgtacga ccggtaaccc aatcgacgac tgttggcgtt gtgaccctca ctgggagcaa 360

caccgtcaac gtctcgctga ctgcgccatt ggattcggca aaaacgccat cggtgggccg 420

tgacggtcgg gattcacgtg gtcacccgac tcaaggaaaa cgacaacccc aagttaagcc 480

ccaaagcc 488

<210> 1860
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-077-Q1-E1-B10

<400> 1860

tttgatctgt gtggttggat tgttgcaaga actaaaccag acccaccttt caaaactttg 60

tccctaacga acaacattaa tcattcattc tcctgtgtga gctcttcctc ttcttctgtt 120

taaggttctt tctccttctt cntttgaggg ggtttaaagc ttcagtggac gaaaagagtt 180

tgtttttttgg gtgacaatgg gaggagtggt gcatcttagc acggcgaagt tagctagagg 240

tttcntaagt gtgtttatgt ctttggggtt tttttcncgc tatcatacgc cgcaaggtcc 300

ggcgtatcaa agcagaagtt tgaantgnaa caaacatttg ancagggctg aancaaanct 360

gctgtcaaaa agcattcana gttcagatgg tgatgntgag ntgacngngt tccaatctca 420

annncaacca accnntttga tcancccgtt tcctcaaaag a 461

<210> 1861
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-077-Q1-E1-B12

<400> 1861

gtgttgtggg tttcaagcta acgggaaagt taagagatgg aatgacagct actgatttgg 60

tcttaacagt gactcanatg ttgaggaaac atggagtagt tggaaagttt gttgaattcc 120

acggggaagg gatgagagaa ttgtctttag ctgaccgtgc tacaattgcc aatatgtctc 180

ctgagtacgg tgcgaccatg ggattcttcc cagtcgatca tgtcactttg cagtatctaa 240

ngttgacang cangancgat gacactgtct ccatgataga ggcgtattta ccaacaaanc 300

acgatgtttt gtgggattac agttgagccg gngaagtacg acaanttaat tcctcangtc 360

tggganttaa tctccnaagg ttnttggaac ctngtgtttc ctgggcccca agangg 416

<210> 1862
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-077-Q1-E1-B4

<400> 1862

gttacgcctg ccggtaccgg tccaaaattc acggganaca ttcaccacca agnccgtgat 60

ggcctgatct gcttcctcct cctccttact tcttgtttcc atcttggttt caaatttctt 120

caaagattcc gatcatcttc acgtcggagt acacaatctg aaaccgatca tcatcatcat 180

caattggggt ttttaatccc tagaatcagt agaaaatatc gatcattgag cttcgattct 240

ggtctccgtt tgattgtttc ggacaatcag agctttgagt ctccgaaaag gttggttatg 300

tcatcttctg ttccaaactc ggaacggaaa gattgttact ggtcccgccg gttaatttcc 360

tttgaagacg ttcctcaatt ctcccgacga ctttccctga tcatccctan aatatccaaa 420

tccattaaca aaggacaatg caagccttaa ctcnggnttg ttaaagcaag taattttggt 480

cnatgaagga tggacacngg ttc 503

<210> 1863
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-077-Q1-E1-B7

<400> 1863

gatcctgtac aagaacattt ccctcaggtt cagatcgcct gaagttaaac aaaaaaatgc 60

tccggtcact tcttctccga cgctccgtcg gccattctct cggaacccta tctcctcttc 120

atccaccatc cgttcctcat tttcgcctca tcgtactctc tgcaccaccg gtcaaacatt 180

gacaccacca ccgccgccac cgccacgtcc tccacctccg cctccggcca ccgcctcaga 240

agctcaattc cgtaaatacg ccggatacgc agcactcgct atcttctctg gagttgctac 300

ctatttctca tttccattcc ctgagaatgc tnaacacaag aagggtcaaa tcntccggtt 360

acgctccttt acctgaaaga tcntcanacn gtctctantt ggantgggta ctcatgaggg 420

tanagaccaa 430

<210> 1864
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-077-Q1-E1-C4

<400> 1864

acgcgtccgg gcagcaatgc ttggtcagcc catgagcatg gtgttacctg gcgtggtcgg 60

gtttaagttg gatggaaagt tgaaggaagg ggttactgct actgatttag ttctcactgt 120

gacccaaata ttgaggaagc atggtgttgt cggcaagttt gttgaatttt atggtgaggg 180

gatgagtgaa ctttcactgg ctgatagagc cacaattgca aatatgtctc ccgagtatgg 240

agcaactatg ggtttcttcc cagtggatca tgttacactg gagtacctga agttgacagg 300

aagaagcgat gaaactgtgt caatgataga atcatatttg cgcgcaaaca atatgtttgt 360

tgactacaac gagcctcagc aagaaagaca tacacatctt atctcagtta gatttgggac 420

atgttgaacc atgtattt 438

<210> 1865
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-077-Q1-E1-D9

<400> 1865

ctaaataaaa acaaaaagct aactgaataa gaagaagtag tgatgcatat cacaaaacca 60

cacgccgcca tgttttccag tcccggaatg ggccatgtca tcccggtgat cgagcttgga 120

aagcgtctct ccgctaacaa cggcttccac gtcaccgtct tcgtcctcga aaccgacgca 180

gcctccgctc aatccaagtt cctaaactca accggcgtcg acatcgtcaa acttccatcg 240

ccggacattt atggtttagt ggaccccgac gaccatgtag tgaccangat cggagtcatt 300

acgcgtgcag cagttccagc cctccgatcc aangatcgct gccaaggcat cagaaagcca 360

gcggctctga tcgntnnctt gtttggcnca gatgcgttag gtctccncaa aaggnattna 420

gcatgttgag ttatgtgttt a 441

<210> 1866
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-077-Q1-E1-E2

<400> 1866

cgacctaaac aacaacaacg actccggcga gtgtatgtat ctttcacttt ctcactaacc 60

aaccagacga caaaagaaaa ttattcatct tagctaagct cgattagttt ctggcggaaa 120

cggttttgtg gntaattgtt agcatattcc gatcttgccc tcccccgaga gagagagtcn 180

nnnnnnnnnn nnnnnnnnnn ntctcttacg aagctacgtg tgacctaaca ttctccagat 240

tgttgtttan agcctcttct tagatttacg anttgtggag cttgtgaaga tttcttggta 300

gaattagngn tctccgttcg anatnnagat gaatantaat aancntnata gnnggnagat 360

tttccacccg ggggattggg tggnggcggg gtncctggtc cccgggtccg aacgtttcag 420

nc 422

<210> 1867
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-077-Q1-E1-E4

<400> 1867

gttacgcctg cnggtaccgg tcnanaattc acgggtcgac ccacgcgtcc gctccgggcg 60

acaaaaacac agcgagcgac tgacgaaaat taaacacttc gccgtcacag acactctctc 120

tatatatata atctccggcg atggagagtt tcgctcttca ctctctctcc accaccgcca 180

cttccacctt actctcncat catcatcatc accatccctc acgtctctct cttctccgtc 240

gtacctcttc gagatctccg ccttcaacaa tctccctccg atctctctcc gttcaacctc 300

tctccttccc tcttctcaaa ccaattcctc gattctccac acgaatcgcc gccgcaccgc 360

anagacaacg gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnaang 420

aggggaaact catccctctg attctctcaa tctccgtcgg gctaatcctn cggntttcgc 480

tggttcctgt aa 492

<210> 1868
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-077-Q1-E1-E7

<400> 1868

ctctctgtct gaaaacgact nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnngat gcttcattga ttcacgagaa gacaattcca 120

tttctgatat tatttgtttc ctttctcgat cgattctttg cgtaaaaacc tgtttctgtt 180

ctgtttcaga atctgtctct cttattactc tgttctgttt tgtctgtctt aataaagttt 240

ctttctctct ttaaagacaa attcatagtt ccagtttccg aacttctcag cnctcntgtc 300

ggattctctg atgaagtcan nagatctctg tttggaacta tcnaatttct canccgctct 360

taantttcnt tnttagnttc aagttcaccc ggagatctcn a 401

<210> 1869
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-077-Q1-E1-F5

<400> 1869

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gattgatcag aggtttggtc gacgtggcta tcggaggaaa ccaacgccgc ggngganacg 120

atggtggtga tgatgaangc anctcgaggg acnagagatc cagatcnact tgggctaatg 180

tggtttccgg tgaggaagag gatcagaatc gcgcgggagg atcgtcncac ggccgtcgcc 240

ananttcaga ggagaatcaa tgggagaaga anggcgaaag gcttcccaca aggcattcac 300

aatcacatga cgaggancan naagagaatn catatgcnng ctaaagtgag cgagaannca 360

agacntctcg gagagccanc acgagganna tgatggttgg ggaaaactgt gggcaaaaac 420

gaaaacctgc ac 432

<210> 1870
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-077-Q1-E1-G6

<400> 1870

aaatttaata atcaaaataa annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnncaaaagc cattttaaat ctctctcttt ctcactcaat ctctctgtag 120

ctatcagatc ttctcttatg ttgatcccca acananaatt aagagaaatg aatcggagac 180

agcaagtgaa acgtagagta ggtaaatatg aagttggaag aacaattgga gaaggaacgt 240

ttgctaaagt taagtttgct aggaaactct ganactggag aanctgttgc tctcaagatt 300

cttgataaag agaaagttct caagcataaa atggctgaac agattagaag gagagatagc 360

tactangaag ttgananaac atcnanntgt tgtgcaatta tatgacggga nggg 414

<210> 1871
<211> 516
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-077-Q1-E1-G9

<400> 1871

aactggttcc ctgggacgta anggtccgga attcccgggt cgacccacgc gtccggccaa 60

tctttcgatg aggaaaagat ttgaaggtac tggtcattct atgcaagacc tatttggcgg 120

aacaccaatg ccgtttctac ccaatatgaa aatccctcct atggatccac ctgtcttcaa 180

ccaacaagag aaggacttac cgcctttggg tttggatcag tttccatcag ctctttcatc 240

tatcccagag aaccatcgaa aggtgctgga gaatataatg ctaagaactg gctctggaat 300

tgggcacgta cagaanaaga aaacaagagt aggatgcatg gtccgaggat gaactagatt 360

ctctctggat tgggattcgc agacatgggt atggaaactg ggagacaatt ctcagagatc 420

caagggtcan attttcgaaa tttannacan canagnactt gggangctag agtgggaaga 480

ngagcancgt naattcttgg gaaantccct tcatcc 516

<210> 1872
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-G9

<400> 1872

atatagtact aagtgtgatt tgcccaactt gtcatcatta tctctatcta ataaatggcg 60

ttacaaaggc aactcctgaa gagagctact tccgatatct atcaccgccg tgcgatctct 120

ctcctccgta ctgatttctc tacttctcct tcgattgctg atgctccgcc gcacattccg 180

ccgttcgttc accaagccac ggccgtataa aggtccttcc gccgatgagg ttttacaaga 240

aacggaagaa gtttctcgga ccttctcttt tccactacta ccaagaagcc tcttaacatc 300

gttgaaggga aagatgcaat acttgtatga tgangagtgg tangcgatat ctggatgcct 360

ttgctggaaa antcactggt gtcgtgcggg tcaactggcc aaccgggatn attccta 417

<210> 1873
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-F6

<400> 1873

ttattgaaga ggcaggacaa ccgaagaatg ctggctcgac tgctgcgact gcttttctta 60

taggtgataa gttgattgtt gctaacgttg gtgattctag agttgtagcg tcaagaaatg 120

gttcagctgt tccactctct gatgatcata aacctgatag atcagatgag cgacaacgga 180

ttgaagatgc tggtggcttt attatttggg ctggaacatg gcgagttggt ggaattcttg 240

cggtctctcg ggcttttgga gataagcaac ttaagccata tgtgattgcg gagccagaaa 300

ttcaggagga ggatataagc acattggagt ttattgttgt tgctantgat ggactgtgga 360

atgtgttgtc aaacaaggat gccgtggcaa gtagtacgag acatttcana at 412

<210> 1874
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-G2

<400> 1874

gaanccatgg atcgtgcttt aactccgcgt tttgatactc cagctactct ctccccttc 60

cgataccgat atgggagctc tctggccatc actcgacgat tcgcgccggc gattgtttgc 120

gcgaaacgat ctccgatcga tggagtgagc gacgagctga atctgattgc ttcacagaac 180

ttanatcaag ctcccgcacg aagactagcc cgttccgctt ttgttgactt gcagcttcag 240

ctggatcact gcttgttcaa gaaagctccg agtgggatca gaacagagga gtggtatgag 300

agaaattcga aaggggaaga tattttctgc aagagttggt tgccgaaatc cggcgacgaa 360

atcaaagctg ctgtatgttt cctgtcatgg ctattggaag cacttgcact ttccttctt 419

<210> 1875
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-G7

<400> 1875

aatttggata ttgatggtaa tgttggannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnacta cnaataaaaa 120

gagtttggac cgatattgaa atttgaagag gtcatgaagg agactgaagc tagangagct 180

actcttccat ctgatatgtt ggaagctgct aanaactatg ggatccgcaa antgcttctc 240

cttangtact tggatttgca ganctcagca gggcttcttg ggtttgcnat aagatcatgg 300

gctatgcctt ncgtaacana atgtttggct gatccatctt tcctcttcaa aatccggggc 360

tnannacagt ncantnaagt ccttgccggt nccaccggtt 400

<210> 1876
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-G8

<400> 1876

anncgtccng ttgatgaacc cgttcttgca tttggtgatg acgcaaaagc aaggatggct 60

actatcacaa tttttaccat tgcaaacaaa tatggagatt atatacgtac gggttggagg 120

aacatattgg actgtatctt acggctacat aaacttggac ttctgccagc tcgtgtagcc 180

agtgatgcag ctgatgaatc anaacattca tctgagcaag ggcaaggaaa gcccctcgcg 240

aattccctat cttcagctca tctacagtca atgggaactc cgaggagatc ttccggattg 300

atgggaagat ttantcagct tctttcactt gntacagaag agccaagatc acaagcctac 360

tgagcaacag cttgcatgct catcaacgaa cacttcanac aattcagaan tgtcacattt 420

gaca 424

<210> 1877
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-H10

<400> 1877

ccgggccgac ccacgngtcc ngtcccannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnntgtt tttccacata gtattggagc ggaacatgca gttgcatcct cgtttctttg 120

gtcgtngcct aaaagaaaac ctcgtatcta agctcatgaa agatgtcgaa ggcacttgca 180

gtggccgaca tggatttgta gtggcgataa ctggaataga tacaatagga aagggtttga 240

tcagagatgg gactggtttt gtcacctttc cagttaaata ccaatgcgtc nttttcagac 300

ctttcaaagg cgaagatttt ggaagctgtt gtcactttgg tcaataagat gggattcttc 360

gctgaatctg gcctgttcag atttttgtgt ctaagcattt gattccaaga tgatatggct 420

ttcangctgg aggacatg 438

<210> 1878
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-H2

<400> 1878

cgatttccac gtccatggat ctcagtcaat gttccttaat ctctcttttc gattagtcca 60

atctccacta atctctgacc tcagatcgct tccgacgccg ctgaactgtg tccgtcttga 120

tctgtgttta ggagaaagct tctagggttt ttgttttggt tgctgagtag aatttgttgg 180

atctgaaacg gaaatcaaaa tgggcttttt cagtacgata ctaggatttt gtggatttgg 240

agttgggatt tcattgggac ttgttattgg ttacgttctc ttcgtctact tgctccccaa 300

cgacgtcaag gatcctgaaa ttcgttcaat agctgaccaa gattccaaag ctatgctacg 360

gatgcttcca ngagatacct ctatgggtca aaaatccgga tttcgatcgt gttgac 416

<210> 1879
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-H3

<400> 1879

cgagtgaagc cgcgactgtg aaatcatgag aggagtaaaa cgcgccgcca tctccgaatc 60

gaatgactct ccctttaaga atgcaaaacc agtggaagga atctttttg gtactcagaa 120

gaatgtggta ccgatgcagc agagttcagt aacatcagca tcattggata aacagagggc 180

tgagttagct aggaagcatg tgagagctct taataaccaa tttgtaagtt gggtgcagtt 240

acagctgaag aatcatcctg atgaactttg ggaagatggg atgaatgact acattacgca 300

tgcttcaaac attctggaaa agtttaagga tgtggtcagc tggcttaaag aaaataaggg 360

aaaggggggag aatttatccc ctgaatcccg tggagcagaa aataaantta gtgggctg 418

<210> 1880
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-H6

<400> 1880

gaatcaacca aaaacatctc cgactccgcc gccacactgg atgcggtatc caccaacggt 60

gataatccct catcagatga tgtacgcgcc gccgccgttc ccaccttatc atcagtatcc 120

gaatcaccac caccttcacc atcaatctcg tggtaataag catcaaaacg cttttaatgg 180

tgagaataaa accatatggg ttggtgattt gcatcactgg atggatgagg cttatcttaa 240

ttcttctttt gcttccggcg acgagagaga gattgtttcg gtgaaggtga ttcgtaataa 300

gaacaatggt ttatcaagaa ggatatggat ttgtggagtt tgagtcccat gatgtanctg 360

ataaggtttt gcgggagttt aacggggaan actatgccaa ntactggacc aaacc 415

<210> 1881
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-H8

<400> 1881

attcccgggt cgacccacgc gtccncttct gcctccaaac tctctctttc tctctcgaga 60

accttaagaa aacgttacaa atggctgttg aagcaagaca catgaatctc ttctcttctc 120

aatacattac caacagagaa tgtgttaaat ctcaaacgaa tatgaacaac ggacaacaaa 180

tcgccggcgg tggttttccg gtaacaatcg gtgatcggaa tttacagtac atagatccga 240

ttaacagctt caacaaatca gaaagcgagc tcacaagcta tttcaaaacg tcagaagaga 300

ttcaacgttt gattcagacg ctttaatcgc atctcangaa acgcagangc aatccgcgtt 360

ttctccggcg tcattaatcg acgcagagtt agtttcacag gatncaacag cnaaaacnca 420

ngaaatcgaa ttggaatncg ta 442

<210> 1882
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-A4

<400> 1882

gaaagctgga gttggnatca gtaccatttg atatccgttc aatattggat gatgtccttt 60

ctctattctc tgaggagtca aggaacaaaa gcattgagct cgcggttttc gtttcagaca 120

aagtaccaag agatagtcaa aggagattca gggagattta gacagataat cataaacctt 180

gttggaaatt cggttaaatt cacagagaaa ggacatatct ttgttaaagt ccatcttgcg 240

gaacaatcaa aagatgaatc tgaaccgaaa aatgcattga atggtggagt gtctgaagaa 300

atgatcgttg tttccaaaca agtcaagtta caacacattg agcggttaca agctgctgat 360

ggtcggaata gctgggattc attcaagcat ttgggtctct gang 404

<210> 1883
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-B5

<400> 1883

tgataaagag aaagttctga aaaataagat gatcgctcag atcaagcgtg agatttcgac 60

gatgaaattg atcaagcacc cgaatgtcat tcgtatgttt gaggtgatgg ctagcaaaac 120

taagatctac ttcgttttgg aattcgtcac tggtggggag cttttcgata aaatttcaag 180

caatgggaga ttgaaggaag atgaggcgag gaagtatttc caacagctga ttaatgcggt 240

tgattattgt catagcaggg gagtttatca tanagacctt aagccagaaa atttgctttt 300

ggatgctaat ggtgctttga aagtgtctga ctttggattg agcgctctac ctcagcaagt 360

tcgagaggat gggttacttc acacaacctg tggaacaacc c 401

<210> 1884

<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-B7

<400> 1884

gtgttgtggg tttcaagcta acgggaaagt taagagatgg aatgacagct actgatttgg 60

tcttaacagt gactcagatg ttgaggaaac atggagtagt tggaaagttt gttgaattcc 120

acggggaagg gatgagagaa ttgtctttag ctgaccgtgc tacaattgcc aatatgtctc 180

ctgagtacgg tgcgaccatg ggattcttcc cagtcgatca tgtcactttg cagtatctaa 240

ggttgacagg caggagcgat gacactgtct ccatgataga ggcgtattta cgaagcaaac 300

aagatgtttg tggattacag tgagccggag agtaagacag tttattcctc atgtctggga 360

attgaatctc gangatgtgg aaccttgtgt ttc 393

<210> 1885
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-F3

<400> 1885

agatctgaaa ccttatctga attacatttc cccgattcga cgttgtgcga attgatgcag 60

cagagaggac gatccgtcaa ccgcagatca cgaagcttct ctagatccag actcgccgtc 120

gaaggccact gaattactct ctcccctctc ttggcagatc ttcttcttcg ttttttcccg 180

acaaacgaca tttccgaaat ggctgcatcg tacgaagaag agcgtgatat tcagaagaat 240

tactggatag agcattccgc tgatctgact gttgaagcta tgatgcttga ctcgagagct 300

tctgatctcg acaaggaaga acgtcctgag gtactctctt tgctccctcc atatgaaggn 360

aaatcagtgt tgggaacttg gagctggtaa ttggncgttt caactgggtg gaattan 417

<210> 1886
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-C1

<400> 1886

ctttactcac acaagaaaac aaaatcatgt ctcgatttgc tatcttagta accttggcac 60

ttgccattgc cactgtttcg gtggttatag ctcaagtccc tccggagaaa caattcagag 120

tcgtcaacga aggagaattc ggtgaataca tcactgagta cgacncaagt tacagattca 180

tcgaatcatc aaaccangag cttcttcaca tcaccattcc agctcttgtt ttacaacact 240

acccctagcg cctacatctt agctctccga gtcggactca aggcgtgacg agtctaccat 300

gcgttggata tggggacgcg aatcgcaaca aacccgtctg gggaaaacgc tacactctca 360

ctccngcccg taacgggaan ctccgtcctc cgctgaagcc tgncggacga gtcnaatggg 420

gagactaac 429

<210> 1887
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-C3

<400> 1887

acggcttcac ttctaactgg tgcggtccta atgtttgtaa ctacacaggc gtgttttgtg 60

caccggctct agataaccct tatgtcttaa ccgtcgctgg tatagacttg aaccatgcta 120

atatcgccgg ttatctccct ttagagcttg gtctcttaac cgatcttgcc ttgttccata 180

tcaattccaa ccgttttcaa ggtcaacttc ccaaaactct aaaatgtctc catcttctcc 240

atgagcttga cgtcagcaac aataaactct ccggcgaagt ttccttccgt aatcttctct 300

ttgccttcct tgaagtttct cnacattang gttcaatgag ttccaagggt gatgttccta 360

gccaactctt tgacctaaac ctcgaagctc tcttcantaa cgacaacaaa ttccangttt 420

a 421

<210> 1888
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-B6

<400> 1888

acncgtccgc ccacgcgtcc gcggacgcgt gggggagtct cttatgttgg gtgaagaacg 60

cagacgcgga aactacacca gagacgtaga cgcggacgca gatgaaggtg ttaactctcc 120

ctcttctttt ccaaactccc ctgatgattc ggaccgtcgc agttcttctt cttcttcaag 180

gagaggattg tcgaaacatt acaaaggtaa atcacaatcg ttcacaacgt tggcagaagc 240

gctaactgtg gaagatctcg cgaagcctga gaatccattc aacgcaaagc tgaagcagcg 300

acgaagagag ccctcactgt cgtagattat caggatgcgg cggcgcatcg agcgaaattt 360

aagtgttcaa cgacnttttt tctcgctggg ggaacgatng aac 403

<210> 1889
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-B8

<400> 1889

tcagtgaaca aatttggcta tggctttttc tgcaccatca ctttccaaat tctctctttt 60

ggttgccatt tcagcatcag ctctcctctg ttgtgctttt gcccgtgatt tctccattgt 120

tggatacacg ccggagcatt tgacaaacac tgacaagctt ctagagctct tcgagtcatg 180

gatgtcagaa cacagcaagg cttacaaaag cgtggaggag aaggtgcaca ggtttgaggt 240

tttcagagag aatctgatgc atatagacca gaggaacaat gagatcaaca gttactggct 300

cggtttgaac gagtttgcgg atttgaccca tgaagagttc aaaggaagat atctaggact 360

tgcaaagcca caattctcta gaaagagaca gncctcagct aacttc 406

<210> 1890
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-B9

<400> 1890

ctgccaggtc atatcaagaa gcccgggtcg acccacnagt ccggagagct tctcacagtg 60

aagcaaacaa tggagtcttt tcggcgattc tccttgctat ccttcattgc cctacttgcc 120

tacttcgctt tcctcgcttc tgctgaanna tcacgtccat caattcgtga tcacaccgac 180

accagtgaag aggctgtgca gaactcacca aagcatcact gtgaatggtc agtaccctgg 240

tccaacgctt gtggtcagga acggtgactc tctcgcaatc actgtcatca acagagcccg 300

ttacaacatt agtattcatt ggcatggaat cagacagctg cggaatccgt gggccgatgg 360

tcnagagtat ataacacaat gtccgatccg tccaggacaa acctacactt acagattcan 420

natcgangat caagagggta cgctttggtg gcaccc 456

<210> 1891
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-C3

<400> 1891

acgcgtccga attgctttta gtggagctga agatgttgca ttgattgaat atgcacgttt 60

aactggaaag ccatttaggg tttttagttt agatacaggg agattaaacc ctgaaacgta 120

caggctcttt gacgcagtcg agaagcagta cgggattcga attgagtaca tgtttcctga 180

tgcagttgag gttcaagctt tagtgaggaa caagggtttg ttctcattct atgaagatgg 240

tcatcaagag tgttgccgtg tgaggaaagt tagacctttg cgtcgtgctc ttaagggtct 300

taaagcttgg attacaggac agaggaaaga ccaatcctcc gggtacgaaa tctgagatcc 360

ctattgttca agttgatcca gtgtttgaan ggttaagatg gcngtgttgg gaaa 414

<210> 1892
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-C5

<400> 1892

agatccttaa atctccaaat ttcctcctca gtcttatcat tatagacaaa acccttttct 60

ttgtaaattt tttcccaatc tatggaagtg cctagtgaaa ccacgaattt agccgatctc 120

cggcgaccat tggtggttcc ggttgtctcg gagcgtaaac ctccggcaga cgtcggactc 180

ggactagaga gtgttttaac ggagcgtagc cttccgtacc ggaggcgcgt gtacttaggg 240

gcatgcatag agatgaagct acttttccgg ttggcacttc cggcgatact tgtctattta 300

agtcaacagc ggaatgggta tttccgctcg gatcttcgcc ggacatctcg gtaaaaatga 360

gctcgccgcc gcgtccatcg gaaacagctg gctcant 397

<210> 1893
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-C7

<400> 1893

caactagttt tgtttttcct ctttcaaaaa tgcatttctc ttcgtcttca acatcgtcca 60

cttggacaat cttaatcaca ttgggatgtc ttatgcttca tgcatctttg tccgctgctc 120

aactcacccc taccttctac gataggtcat gtcctaatgt cactaacatc gtacgagaaa 180

ccattgtaaa tgagttaagg tcggaccctc gtatcgctgc gagcatcctt cgtcttcact 240

tccacgactg ctttgttaat ggttgtgacg catccatctt gttagacaac acgacatcat 300

ttcgaacaga gaaagatgcg tttggaaacg caaattcggc tcggggattt ccagtgattg 360

anagaatgaa agctgcggtg gagaaggcat ggccaagaaa cgttttn 407

<210> 1894
<211> 332
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-C8

<400> 1894

agatgaacat gcatcgtgat aacattagat ggttacaata tcctcaccaa cttggaagtg 60

acacaaatta tacattacta ctagttagta ctagtagatc tgaatctctc tctctttctt 120

cttctctaat gccgtaaatt gtaagctaac tcttcccaca tantgcctcg attctcgctt 180

ttgctctctc tctctttcct ccgacaatga ataggaatct cagagaatct cttgccggtg 240

ggaggaatat tccggcgatc tctcaagttt cgtagaggca ataacaacaa cagcaacaan 300

atctctcaaa atggcttctc tagaagattc cn 332

<210> 1895
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-C9

<400> 1895

cgccangtaa tatcaagaag tcccgggtcg acccacgnnt ccgcccacgc gtccgcacca 60

ccaacaacaa caactccact aaaaaattca tagctctaca agagtcacct catagagaag 120

tgaagagaca gagatagttg tgacagagag attcatggcg gaagcttgcg gagtgagaag 180

gatgaagctg ggaagccaag gccttgaggt atctgcgcaa ggccttggtt gcatgggcct 240

ctccgctttc tacggtgctc ccaagccgga aaatgaagcc atcgctctca tccaccacgc 300

tattcactcc ggcgttactc tccttgacac ctccgatatc tacggccctg agaccaatga 360

agttctcctc gggaaaggct ctcaaggatg gggtgagaga aaaagtggaa cttgcgacca 420

aatttggnat caagttatca g 441

<210> 1896
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-D5

<400> 1896

ctttaatgga aggaccttga cacttctctc tctctttctc tttgctattc atcttctaca 60

gtttcttaaa aattatacnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncag gatttgtttt ttccgtttga 180

ggtaaagcag ctttgcagtt aaagaaacct tgagtatcca atgtccccgg aagaggagct 240

acagagcaat gtatcggtgg ctaagttctt cacctactag caattgcatc tccaggaaca 300

ctctaggagg acttaaagag cataactact tgggtctctc tgattgttct tctgttggaa 360

gctctactcg ctctcccctt gctgaagatg 390

<210> 1897
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-E1

<400> 1897

aaacaaanaa aaaaaaagat cagacaaaat aaatcattgt caatcgacga ttcanaagct 60

taatcgtcta gaatcaacat aattcttcga ttgtacactc tgattggcta cttgttagat 120

ctaagaagag gccaagtatt atttcgtact aacattatca tggaggagac ttctattgaa 180

gcanacactg tggagaagtc ccaaaccata taaaaggctt cacgtcagca agatcggtga 240

atgatattcg tgccgccatc gtctcaagaa taaactgact attttctaaa aaggttatcg 300

ccaanattaa gtatttacga attanaattg ataaggaang tcactaggaa ggagctgtgg 360

aaaaganaat tgtggatttg ggcanaaatc tgggg 395

<210> 1898
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-E10

<400> 1898

caagaatgcc cgggncgacn cacgantccg cccacgcgtc cgcaaagcct ggatcaatca 60

tcatcttcat caatttccag attcagattc caaatctccg aagcttaacg aaaacaatgg 120

cggcagaacc taacngntaa gaatttccct gtcctctctt atgtcttggc tcgtctccct 180

tctttcaccg ccaannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nngatgttct cgcttcaatg acaagtgcga tctctgacgt cgccgagact cgatctatcc 360

ntcgaaccct aggacctaga ccagatnacg antcagtcga taaggctcgt gctaannctc 420

ncggaaatcg aatcggtcgt atctgaaat 449

<210> 1899
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-E11

<400> 1899

caagaatncc cgggtcgacc cacgaatccg gatgttctgt gcagtgataa aacaggtact 60

ctcacgctca acaagctttc tgtggataag aatctgatcg aggtttttaa gaggggcatc 120

gacagagata tggcngtgct tatggctgca agagctgcac gtttagagaa ccaagatgct 180

attgatactg caattgtttc gatgttgtca gacccgaaag aggcacgtgc cgggattaaa 240

gaactccatt ttcttccatt cagtccagct aatagaagaa ctgcactaac gtacctagac 300

ggacgaaggc aaaatgcacc gagtgagcaa aggcgcgcct gaagagattt tggatatggc 360

ccacaacaaa ttagaaatca aggagaaagt acatgctaca atncgacaaa tttgcagaac 420

gtggcctaag atcgcttggg ttgg 444

<210> 1900
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-E3

<400> 1900

ctgtttacgc cttccagtag cctccgaaat tccanggtcn acccacgcgt ccgcggacgc 60

gtgggattta ngttttcata ttacttgaca aacctgatga gctactcgac aagcaagtct 120

cagagcatat tatgtcgctt cattctgcaa gtggagaaac atcacctgca ctaaagaagt 180

ttaaaccaac atcacagaat gctgggtatg caaacatgca tgcagaaggg aattctctac 240

tttcaagact gcggttggac tctgagaaag atgacgactt ttctccggtt cctggccaat 300

tgcttaggaa atatatttcc tatgcacgga attttgtcaa tcctaagatg tcaaaggatg 360

ctggagaaga tcatacagaa gttttacttg aagctgagag accataacac atctgctgat 420

tccacaccaa taacagcaag acaactggaa agtttggtta ggcttgctca aac 473

<210> 1901
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-E4

<400> 1901

caggaatcaa aggattcttg ccttgaggtt gtttaccgga tgtactggct gtgttatcat 60

atccacacat acaagaagac gcaggtgtct ctggttaatg gaatatcgat gggtggaggt 120

gcagcattga tggtccctat gaagttttca gttgtgacag agaaaactgt ttttgcgact 180

ccagaagcaa gtttcgggtt tcacactgat tgcgggttct cctacatcca ttcacgtctt 240

cctggtcatt tangagagtt cttggcttta actggggcaa gattgaacgg caaagaactt 300

gtagcaattg gaatggcaac acattttgta ccttctggta aattgatgga tctggaggca 360

cggcttgtga gtttaagact caagagangc ggatgtatcc aatccacaat tgaa 414

<210> 1902
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-F1

<400> 1902

gaancaacct ttggatgtgt ttgttcgagt ttcgaggttt gtggctagtc cgaggaggaa 60

agcggttgag ttgttgctga gaggaggagg tgttggagga ttgatcgatg aggcggttga 120

agaagagatc aagattgtct ctaagtatcc agctgatgct tctttaccgg atataaacga 180

aggggtttat ggaagtgatg agtttaggat gtatagcttt aaggttaagc catgttctag 240

ggcttattct catgattgga ccgagtgtgc ttttgttcat ccgggagaaa atgcgangag 300

gagagatccg aggaagtatc cttacacttg tgtcccctgt cccgagttcc cgtaaaagga 360

tcatgcccca aaaggagaat tcctggcgan tatgcctcac ngggttttcc a 411

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<210> 1903
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-B5

<400> 1903

taaatgaaat aatacaaagg gatctttatg taaaggcgtc accaattagt ggaaataatg 60

gagcaagcca ctacactctt catattgctt tccactctcc tcctcgccgt ctccgttgag 120

tctcctcagc caccgctatt tcccgatgaa gctctcccca ctaaatctgg ctacctcccg 180

gttaaacccg cacccggctc gtccatgttc tatgccttct acgaagccca agagccaacc 240

acacctcttc ctgacactcc gctcctcgtt tggctccaag gtgggccagg ctgctcttca 300

atgattggca acttttacga gctcggtccc tggcgtgtag tttcacgcgc cacagacctc 360

gaagcgcaaa cccggcgcat ggaaacgtct aatcggacn 399

<210> 1904
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-F1

<400> 1904

cgttacgccg ccgttaccgg tgccanaatt cccgggacga cccacgcgtc cggttcctct 60

aatgtggact aaacacttgt tgcagccatc cctcctttac ccgtgaatca naagcttatc 120

caggacaatg cactaggtgt gaggaatgct gcacaaagaa agcttctcga tgagcttggt 180

attgtagctg aagatgtacc agtcgatgag ttcactccct tgggacgtat gctgtacaag 240

gctccttctg atggcaaatg gggagagcat gaacttgatt acttgctctt catcgtgcga 300

gacgtgaagg ttcaaccaaa cccagatgaa gtagctgaga tcaacgtatg tgaagccggg 360

aanagctgaa ngagctggtg aagaaagcac atgcangtga ngaacggttg aaactgtcac 420

caatnggtca aaaatngggg ggggg 445

<210> 1905
<211> 392

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-F3

<400> 1905

acgcgtccgt atctatgcag atgccgatgt gcgtctagcg agaangataa aacgcgatac 60

tgttgagaag ggcagagata ttgccactgt tcttgaccag tactcaaagt ttgtgaagcc 120

agcatttgag gatttcatac tcccaacaaa gaaatacgca gatataataa ttccccgagg 180

tggtgataac catgttgcta ttgatttgat tgtgcaacac atccatacga agctcggtca 240

acatgatctc tgtaaaattt atccaaatct ttatgttatt caatcaactt ttcagatacg 300

tggtatgcac actctaatcc gcgactctaa aacaacaaag catgancntt ancttccant 360

ccnatngant gaaacctttg gggcccttna ca 392

<210> 1906
<211> 368
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-F5

<400> 1906

acgcgtgggc ggacgcgtgg gtcttaagag gtgatcctcc tcatggtcaa gataagtttg 60

ttcaggttga aggtggtttt gattgtgctt tggatcttgt taatcacatt cgtagcaagt 120

atggtgatta ctttggtatc actgtcgctg gttatcctga ggcgcatcct gatgttattg 180

gtgagaatgg tcttgcgtct aatgaagctt atcagagtga tcttgagtat ctgaagaaaa 240

agattgatgc tggagctgat ctgattgtta ctcagctttt ctatgatact gatatattcc 300

tcaagtttgt gaatgattgt cggcaaattg ggattanttg tcccattgtt cctggaagta 360

agcccnaa 368

<210> 1907
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-073-Q1-E1-H4

<400> 1907

agattaccgc ggtccgacgc atgcagnaaa tttcatgttc ntcttcctcn tccgattcat 60

agtttttttt ttttccggta acttgtcatc aattagatct cgtccgaagt tgaatcttta 120

gttcgcgagc ttttggacaa cttcgaggtc ttagctttgc aatgaaattg tacgaacacg 180

atggagttga tttagaagat gggaagacag tanaatccgg aggagataaa ccaattccaa 240

gaaagataca taaccgggct ttgttatccg gtttagctta ttgcatttca tcatgcagta 300

tgatacttgt caacaagttt gttctctcca agctacaact tcaatgctgg ggatnttcct 360

tangttataa ccanaacttt gncnccgggg atcaattggn ggttggggtt cangtttaaa 420

aggggccaaa aacccaangg aacc 444

<210> 1908
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-H6

<400> 1908

ggtaccggtc ataaattccc gggncgaccc acgcgtcnaa gtgactcttc tctctctgta 60

tattactctt ccttcactat ctctctctct ttactgggtc ttcttcagct tctgagtctt 120

ctcctctctc tctatctctc aagtgggctt tgctttgctg tttttgtctt ccttcgacga 180

ctcacttttg cagattctca taaattcttc aaagctttga gtctttttc agattcgagg 240

gtcggtttta tatatgcttc aaatctctta cccaaatcag gtatgganac tctgcatcca 300

ttctctcacc tacctatctc tgaccaccgg ttcgttgttc aaganatggt gagcttacac 360

aagctcnagt ancggtaagt ggactaaaga agagaacaa 399

<210> 1909
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-H8

<400> 1909

acgcctgcca tgttntcggt gcnnagttcc gggnaagaat tcacgggtcg acncangcgt 60

cnncacaaag tcatctcctt cttctttctt gatctagcta gcggaaaatt tgacaatggc 120

aagaatcgga agctttctca ttattcttta cctcatttac gctcttactc tctgcatctg 180

cgacgacgac gagagtaact atggcggcga caaagggaac ctcttcccag gtttctacag 240

aagctcgtgc cctagagccg aggagatcgt gaggtcagtt gtagccaaag ctgttgcaag 300

ggagactcgt atggctgctt ctctcatgag gctccatttc cacgattgtt tcgttcaggg 360

ttgtgatgga tcgttgcttc tanacaccan tgggagtata gttactgnga agaactctna 420

accgaacaac naatttnggt ncccccggnt ttgaaattnt tacccaaatt ta 472

<210> 1910
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-A11

<400> 1910

ctgcaccgnc caggtaatat caagaagncc cgggtcgacc cacaantccg gctttttttgt 60

accgtacatc ttcttcccag aaacatggct gaggcttctg atttgttgga atggcctaag 120

aaggataacc gtcgttttct ccatgttgtc taccgcgttg gtgatcttga tcgcaccatt 180

gagttttaca ctgaggtctt tggtatgaag ctgttgagga aaagagatat ccctgaggag 240

aagtattcna atgcttttct tggttttgga cctgaaacat cnaactttgt tgtgcagctc 300

acatatnacn atggtgttan ctcatatgan attggaactg gctttgggca ttttgccaat 360

ttcannncaa gatgtttcna anaccggttt gacaacctcc gttccanngg tcgaaaatnn 420

gacttagggg aacctggctc cangtcaagc gtggaaggcc agtnttcat 469

<210> 1911
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-A12

<400> 1911

ggtcgaccca cgnatccgga acaacacaga gcagagaaaa aaaagaggta gcnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc 120

aaggtctcaa ctttgcttac aacaatggct ttaatccacc gacggactta tccatccaag 180

ggatcacaac cgtcacaccc aacggtctct tgaagctaac caacacaacc gttcagaaaa 240

ccggtcacgc cttctatacc aaaccgatcc ggtttaaaga ttctccaaac ggcaccgttt 300

catccttctc gacatcgttc gtcttcgcta ttcactctca gatcgcgatt ctcagcggtc 360

atggcatagc tttcgtcgtc gctcctaacg caagccttcc ttacggcaac ccaagtcaan 420

acatagg 427

<210> 1912
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-A3

<400> 1912

acgcgtccgc accaccaaca acaacaactc cactaaaaaa ttcatagctc tacaagagtc 60

acctcataga gaagtgaaga gacagagata gttgtgacag agagattcat ggcggaagct 120

tgcggagtga gaaggatgaa gctgggaagc caaggccttg aggtatctgc gcaaggcctt 180

ggttgcatgg gcctctccgc tttctacggt gctcccaagc cggaaaatga agccatcgct 240

ctcatccacc acgctattca ctccggcgtt actctccttg acacctccga tatctacggc 300

cctgagacca atgaagttct cctcggaaag gctctcaagg atggggtgag agaaaaagtg 360

gnacttgcga ccaaaanttg ggaatcagtt atcanaaggg gaaaaagg 408

<210> 1913
<211> 372
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-A7

<400> 1913

cttcttcttc tccgttcgtg ctctggactc gctcgaaatc gatccgatga taatttatgc 60

agctcgaaac ttaatttaga atcatacctt tttctggatt tggctgacga atccgttttc 120

aattgcacga gttgcttcgc caggtttatc aacttaagaa tgtctaatta tcaaggggat 180

gatgctgagt acatggaaga tgtggatgat gaaatggatg aggatgattt agatgaggat 240

tttcgtgggg atgatatggn tgcctctgat tccgatgtcg atgagtttga ctactctaat 300

aataagaata gctgacactt cagctgacca agcccggaaa gggaaagaca tccaggggat 360

tccttgggac an 372

<210> 1914
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-B10

<400> 1914

tcttgncccg ccaggtacan atcaagaatn cccgggncga cccacgaatc cgcccacgcg 60

tccggaaaga cagagataat gacgagagtt ggccagaaga gattccccgg cnanagaaga 120

accnccgccg gcaactaaaa aacgattttt gnctccggga anattcgtga caatcttgtg 180

tancattaac ttgataantt acnttgatcg aggagtgatc gcgagtaatg gtgttaatgg 240

aagctcaaaa gtatgtgatg ccaaaggggt ttgctctgca ggaactggaa ttcagggaga 300

gtttaactta actaactttg aagatggtct tttgtcatct gcgtttatgg ttggacttct 360

tgtggcttct ccaatattcg ctggattgtc aaaaagattc aacccttta aactaatcgg 420

tgttggatta actgtttgga ctattgctgg ttaatcggtt ggcg 464

<210> 1915
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-B11

<400> 1915

gggctcacta ctctctttca tttcctcttt tcgttgactt actaaagtac tcttgtttca 60

atcttcattc tagagagatt ctgtttcatg gatgnnattt tgccagtacc cgttgatggg 120

ttcagattcg acaccggttc tggatcttgt tgcaaaccga ggaacaatct tgaatctggg 180

acgaccaatc gtttcacttg tttcaacgaa tctgaatctc angagcaacc cttctccgac 240

cgagtctaag gtatgttcag attaccttcc tgtctttaag tacatcaatg acatgttgat 300

ggaanaagat cttgaaggtc agtcttgtat gttggaagac agtttggctt tacaaagccg 360

cagagagatc tttcttcgaa gtgctcaaga tcaaactcca atc 403

<210> 1916
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-B12

<400> 1916

aatncccggg tcgacccacg natccgcgga cgcgtgggct aagttgctgt cacacttgtg 60

ctttatgcaa aagggaaata caaggatgga aattttagcc ctgatcaatc ctatctctat 120

cttaccatca nngatacaat atcatacact gtagctctgt acgcgctggt cctcttttat 180

gtggcatgca aagatctgct tcagccattc aatccagtcc caaaatttgt gattataang 240

tctgttgtct ttctaaccta ttggcagggt gttctagttt tccttttttgc taaatctgga 300

tttataangg atgaagaata agcagccctc ttccaaaatt tnataatatg tgtngaaatg 360

cttattgctg canctgctca tttctatgca tttccgtaca aangaatntg cacaaggcca 420

atgttgggag ganct 435

<210> 1917
<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-B2

<400> 1917

taagacgccc aatgctcctg ccaaaaccaa aaccggtgca ggcatgccat gttctctctg 60

tcctcatccc acatgccaac actctgtcag aaaccaagga gtctgcgctt gtccagagtg 120

tgaaggcacg ctcgtcttgg acccggttag cttccccaag tggaaactca actgcaactt 180

gtgtagttgt atcgttttgc ttccggaagg tgctcatcgc atcaccacca ctagtaaccg 240

ctgtcccgag tgtgattcaa gccatcatag agatcgattt caacaagaaa actactcctc 300

tggagaacgg agccactctg catcaaggat gtgttctatg tgacgagttg cttctcctca 360

ctttgtagaa antgaaacat tgg 383

<210> 1918
<211> 361
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-E5

<400> 1918

acgcgtccgc ccacgcgtcc gcccaaatct gacgcttctc tctctctttc tggtatctgc 60

gtttgattcg gagaagaaaa aaaaaaaaaa ggcaaagaga gagcttcaat ggagttagct 120

tctttccttg gtagagctct gtttgtttcc gtatttcttc tctccgcatg gcaagagttc 180

aatgattttg gtgaagatgg tggccgatca gctaaatctt tgaaaccaaa attcaatgcc 240

tttgtaaacc atgtgacaac tcacactggc cagcaattgc caccagtcga tatgaaggat 300

tcttgttgct gctgctaaag ccttgaaggg tactggggga atattgtttg tctttggnaa 360

g 361

<210> 1919
<211> 372
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-B3

<400> 1919

gttcataact tcatcaaaac cagtcgttga gattctgttg ataacatcag tcggatttta 60

tatggctctc gatggagtca atcttcttgg tcatgatgct cgtaaatatc tgaacaacat 120

tgtcttctat gtgtttagtc cttcgcttat tggaagccgt ttagctgata gtgttacata 180

cgaaagcttg gtcaaaatgt ggttcatgcc ggtgaatgtt ctgcttacat tcatcattgg 240

ttcattactt ggctggattg ttattgtcat cactaagcct ccttcacacc ttcgtggtct 300

cattcntggg tgttgtgctg ctgggaaatt ggggaatatg ccactgatta ataatcccag 360

ctgtttggta na 372

<210> 1920
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-C4

<400> 1920

cgntacgcca ccggtcatcg nancccgggt ccgacccacg cgtccngcca ctgccacagc 60

atcagtaggt gtagctgtta gtgataatgg agtaagcacg aatgtggtgc agcatgaagc 120

tacggcagac tctgaggata cagatgctgg ttcgcccaaa agaacagatg agagtgaggc 180

aatgagtgaa gatgtgaaca aaacacccct aagggctgac tcggatggtg aagatgatga 240

atcagatgca gaacatcccg ggaaagtctc cattggtaag aagctttgga ctttcttgac 300

gacgtagccc aatctttgat cagagaatgt agctaatctt cttctgttga caatattagt 360

gttttgcttc ttgatcttta gtagctactt aggagggctt gtgttaattt cgtttggata 420

ttttttcacc acaatgtaat gttttccttc caaccttcca acacttaant 470

<210> 1921
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-C7

<400> 1921

ntcggtaccg aacacgaatt cncgggncga cccacgcgtc cncggacgcg tgggcggacg 60

cgtgggctcg agagactgga ttgttgcttt aacaatccag agatccgtct ctatttcccc 120

aaatgcttca aactgaatca agaagccaga gatctcatca tgcacacttg tatagatgcg 180

atgtttccan gtacacaagt gcctgcctgc ttcattcatc gagctacttc tggggattcc 240

ttgaaaatca agttgaacga gtcgcctctt cctacaacct tgagatttaa ggcttgtatc 300

atgcttgtta aggttaatga agaactgatg agttatgatc agacaccgat gatcgttgac 360

attgtcatca gggacgaaca taatgatctc aaanaaaaga tatatccaag catatatcca 420

agcatatatc cacttttaac agagcatata tacacattt 459

<210> 1922
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-C8

<400> 1922

acgcgtccaa aactgctggg ggaaaagcta gcgccaacag ctctactgcc aaaaatcaaa 60

agaaggatca acccatcacc aagaagggtc aaggaagagg gaagggaaaa gcttcttcaa 120

agaaaagttt ttcatcgtat atgatggttg actccaacat tctatggtct gacattcagg 180

aatttgccaa agcgaaatat gagtttgagt tgcccgagct atcaagaact accgctaaaa 240

aagtatctgt tcttcgtaat ctttgccaaa aggttcgtgt cagtattgct gctcgcaaat 300

acgacttcag tgcaaacacg ccttttgaga cgtcagatat tttggatctt cggcccgtaa 360

ttaagcactc cgtccctgta tgctctgang ctaaagatct tgttgagatg gggaaagtcc 420

aactggctga ag 432

<210> 1923
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-D11

<400> 1923

gtattgttga gcaagtccgt gatggcagca ccattcgggt ttatcttctt ccggaatttc 60

agtttgttca agtatttgtt gctggactcc aggctccatc gatgggaagg agacaatcaa 120

cacaagaagc tgtcgttgat cctgatgtta cagcaacttc gaatggagat gcttctgctg 180

agacgcgtgg ccctctaaca acagctcaga gacttgctgc ctcagcagca tcgtctgttg 240

aggtttcctc tgatccgttt gcaatggaag ccaagtactt tactgagctt cgtgtgctta 300

atagagatgt tcgtattgtt cttgaaggcg ttgacaagtt caacaatctg attgggtcag 360

tatactattc cgatggggat acagttaaag acttgggttt gganctggtt taaa 414

<210> 1924
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-D3

<400> 1924

acgcgtccan ggacgcgtgg gtcggaatct tcttattcgc catggatgct ctttctcagg 60

cgatcagttc cgggatctcc gttccttaca agaacaattc ttcttctctc gttccttctc 120

acggactcac ctccttaatc ctccggaaat cgagatctcc ggtgaatccc tcatcacgat 180

ctcgcgtctc ggtgcgagct tcggagattc aacacagcaa aacctcagct tcatcgatcg 240

atctcagcga ttcagattgg aaattaaagt atgagaaaga tttcgagcaa cgattcagca 300

tacctcacat cactgatgtc ttacctgatg ctgaagccat tcgttcaacg ttttgtctta 360

agatgaggtc tccgacggaa gattttgttg gtggttacct tctgaatgaa gaatgggatg 420

gattcatt 428

<210> 1925
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-D6

<400> 1925

tccatggatg atctaccaac ccatgtaaca gcaccaacta tactaaggtc agtatctaca 60

cgaataggtc ttttcatgat antcctatcc actgaagcag tcaccaaaat catcgatctc 120

gcactgctgt caccaccaca atgctgtttc agtaaaagca cacataacaa agttatattc 180

aaatactcag gatgcaaaca aataagaagg caagagccaa aaacaagaac cttgaaggag 240

atggttccag caagagcgtc aagatcttca accaaattta ccagtacgaa ntctcattcc 300

aagggattcc tatattgttc tcgaagaaca aaatcagaag aaaacttata gagaattgac 360

gttcggcttc gagacggaga tttagccgtc aattttgact gagaagcgtc gtctccggta 420

gga 423

<210> 1926
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-D7

<400> 1926

ccgntcggta ccgaacacan attcncgggn cgacccacgc gtccngtaca aactggcaca 60

agttctgagg atgacttgag gatcaagttt gaggagctca aaggaaagtt ttatggattg 120

gctgaacaga atgaaatgct ggagcagtcc ttgatggaaa ggaatacttt ggttcagaga 180

tgggaaaaac tcctggaaaa tattgatatc cctccacagc tacactccat ggaagtggaa 240

aacaagattg aatggcttgc aagtacaatt acagaggcta cacatgaccg ggataatctc 300

caacagaaga ttgataacct tgaagtctat tgtcaatcag taactactga tttggaagtc 360

tcacaaaagc aagtangtga tgtcgaggga aatcttcaat catgtgttag tgagagggtg 420

aatctttctg aaaggctggg aaaagtttga ttggtgatca tgaaaa 466

<210> 1927
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-D9

<400> 1927

acgctgccag tgccngtcaa aattaagggt cgacncacgc gtccgcagag atttttatag 60

tttggtttct ttgaccggag aatctcgatt aggttacgat ggtgtttctc tcgattccaa 120

acgggaagac tttatcgatc gacgtgaacc ctaattcaac caccatctcc gccttcgaac 180

aattggccca ccaacgtagt gatgttccac aatctttcct tcgttactct ctccgtatgc 240

gaaaccctag ccgcgtgttt gtagattcaa aggattccga ttcgatctta ttgtccgatc 300

tcggtgtttc tcgtttctct actgtgatta tccatgtcct gcttttgggt ggtatgcaag 360

cggctccgcc gaagcctcgt cttgatttcc tcaattctaa gcctccgtca aattatgtag 420

cgggtttggg tcgtggtgct actgggttta ctactccatc 460

<210> 1928
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-E1

<400> 1928

ntattttcca gggacctgca gagaacaaac tctgttgctg ttaccgtgaa caatcttctc 60

cagatgtgat gatagtttgt gtnaaatata ctaagcactt ccatttcaac cttaggtata 120

gattaatgat tggggacata tccttatccg taagttttac acaccaccca acattccaag 180

cttcacccgc tgtagatata aggcactgtg tatcactttt tgctatatag aagaagaggc 240

tctagtgtat agcttctgtt cattgctctc ttgcgaaaat aagttcggat atttacataa 300

ggtgatgatg ccctgggtgg tctgggagat atcttgttgc agtctgacct tggctccaat 360

ctcgaaggga gagtaaccac tctttgcaac ctgctcnttt ggctgctggc cacctctcct 420

gt 422

<210> 1929
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-E12

<400> 1929

ctgtttaagt tgnccggtgc ccggtccana aattaacggg gtccgaggcc cgcgttccga 60

tacacctnga ttcngttagc aancctgggc cnaaannngna ctnagcttng gcctnanttn 120

cnaatggatg gttgatcctn cgcgtttnag ttttggggca agccaagaag aatttggatt 180

ccgttcaggg atggggagcc tttgcgttgg gtcacaaaca acctaagcaa atggatatat 240

ctgcaagcca acaagagaag acaagctggc gggtgggatt agacacgctc accctgaaca 300

gtctatatga cgatggagcc ttgagagcag cccaacagcc tgcctatggc gtcccagctt 360

ccaatccgtt tgaggtccaa gacctgtttg cattttcaga cagtgtttca ccgccttcag 420

ccgtnaacaa cccattcggt ctctaagagc caacctatca tcaacaagag caagcaagcc 480

acaagctaca ngttgcaccc aaccct 506

<210> 1930
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-E3

<400> 1930

cttataaagt ccaaatcttg aagtgcgtgc acggtgcacc acgaatccac gatccagtga 60

gcagcagcaa ctccatctcc ggagctctag attcagataa gaacaatggc gattccgatg 120

cctactcgcc agctattcat cgacggcgaa tggagagaac ccatcttgaa gaagcgaatc 180

ccgatcgtta atccagctac tgaagangtc attggtgata ttcctgcagc tacaacggag 240

gacgtggatg ttgctgtcaa cgctgctcga agagcattat caaggaataa agggaaagat 300

tgggccaaag cacctggagc tgttcgtgct aagtatttac gtgctattgc tgctaaagta 360

aatgaaagaa agacgatctg ggaaaactcg aagcgcttga ttgttggtaa accattgg 418

<210> 1931
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-E4

<400> 1931

tcccgggncg acccacgcgt ccnaaacact ttatcaagag attcacttag ctcttcaggc 60

gatgatgctt caagcttcaa tggttcaatg gtctcttcta gcttcgcttc gccttcagac 120

aaaccgaagc ataagtcaat ctctccttac aaattcatat cttctcttat catgaattct 180

cctctgagga aatggagagg aagtgagact aagaacaagc ccaaacctca gcctctaatt 240

caatgcttca cttacaacga gatttcaaag gccacaaatg attttcacca agggaatata 300

gtaggcatag gaggctactc tgaagtgtac agaggagatt tatgggatgg aagaagaata 360

gcagtgaaga agattagcca aggagaatgg tgacatgaac aanggagaaa gagtttccta 420

cgggacttng gatcataagt c 441

<210> 1932
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-E5

<400> 1932

aaaagcaaag atcaaatgtc acatttgtgg caatctttga atcacagtca tcattgtcat 60

catcaagctc aggggaggta tattcagatg gcacctcttc gtggacttct aattataaca 120

gcgcggagga ggagcatgac aacgacttgg actctgtata aattcaaagg cccccataat 180

tgtctatggg taccagagcg gacgcgtggg atattcctca agtttgtgaa tgattgtcgg 240

caaattggga ttagttgtcc cattgttcct ggaattatgc ctattaataa ctacagaggc 300

tttttgcgta tgactgggtt ccgcaagact aaagatacan ttgaaggtga tggctgcctt 360

gggagcccta tcaagggata accaaagaan ctgttgaaaa gcctaatggg aattcacctt 420

tgga 424

<210> 1933
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-E6

<400> 1933

accgaggcac anattcgccg gncgacccac gcgtccngct tgatccagat tcggttctga 60

ttggagctgc catggaacgc atcatcggcg gnaagtaaaa gctcggacgg aagatcggcg 120

gtggttcgtt cggagagatt tttcnancta cgcacgtcaa taccttcgan atcgtagctg 180

ttaanatcga naacagtaan aacaaagcat cctcaacttc tctatgangc taacctatat 240

agaattcttg aaggaggaag tggaattccg cgcataaaat ggtttggagt tgatgggaac 300

aganaatgct ttagngatgg atttgctcgg tccaagtctc gaatatcttt tcgtcnactg 360

tgggaggaaa ttctcaccaa agacatctta aggttggctg atcaaatgcn aacaagaatn 420

aaatttgtac att 433

<210> 1934
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-C12

<400> 1934

cggtgccggt caaaaattca ngggtcgacn cacgcgtccg nccacgcgtc cgaattgatg 60

aacgcaaaga taatgctgat atgacaagtg atcttacggg aacaattgaa tctgctgatt 120

cagcaatccc aaatagtccc actgaagatg ctgctccagg tgaagttgaa ccgttggatc 180

ataatgctct ttttgatcca acttctgata ttaccaactt tattgatttc agtggtgtat 240

catcttggtc aggaaatata caagacctta aaaccgaaac cgggaatgta tctttgaaag 300

aggataagaa agttactgac atggcagagg acgttgtcac agcagatata gaaactgaat 360

cgaatgaagc ccgtgttggt gttggggcag aatctccagc tgctgcaact gattgttcaa 420

aagagacttc tgatgcaact ttgggatctg aagaaa 456

<210> 1935
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-H12

<400> 1935

acgcgtccga acaagagaaa atcgctcgtc gtcggtattc aagcgtctgt gactccgata 60

aagcctnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnctttggag ttgtcgtatc 120

tctaaatcgg aggcaatttg agtgagataa agacaaagga aggaatcaag tggactaccg 180

aagcgagttt tgagcttttt cagagacgga tttggagatt tcttgttgat atcgtctgct 240

tagaggctta tttggtacca gatgaaacag atctgagctt cggaaggtat ggcgagttcg 300

gaggtttcaa tgaaaggtaa tcgtgggagg agataacttc tcctcctctg ggttttaagt 360

Sequence Listing - 09/25/2003

gaccctaaag gagactagaa atgtctcccg tcgccggcga agggggcaaa aaa 413

<210> 1936
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-A1

<400> 1936

gacaaagcct ttttctctat atatatatat atatctctct atctttcgcc attttggttt 60

ttgcttctct ctgtgtgtga gtgattatga tgatgggatt atctttctaa agctttttgt 120

tttcctgaaa aattaaaaaa gaaaactttt atggttcttc ntctcttctg tgttggagtt 180

gagagaccaa taaatgctgt tagtaatggt tagttgagat gagaggtaaa aagatcccgt 240

agtccgagga gtgtttggtt tcttgcaaaa ggatagtgag gcaaaacatg ggtttggttt 300

ctcttgtctc ctttcattca tccctttttcc attaatggtc tctccctctt ccaacaccaa 360

cctcttcttt tattaactaa caaacatttt ctgccttttt ctcctcctct cactctcct 419

<210> 1937
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-A11

<400> 1937

cgcgtccgnt gctgaattct tcacgatttt ccaactggga ccgctccact tagacggaaa 60

cacttccaaa gctgcagaca aatgggtgtc tatagacgag tatttggatg gctacttggt 120

ggaaaggaag aacagatatg ggaaaaacat ggaagtgatc gatgtcggaa tgcaagagat 180

aaaaacttac ttcaggctct tcttgttgtc ttcagtactt ctgatgttca tgttctgttc 240

caggatagcg aagagcaagt atagtagaaa ctccatgcct gtcttgccat gaaactaatg 300

gaggaagctc tcatttaatt aacccttgta agttagtaat tcttttggtt gcgaaacttg 360

tattcctcat tttagaaatg ttgtgtctca tgaaaaagac aacataattc cttggatttg 420

tgaaanaatc 430

<210> 1938
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-A3

<400> 1938

cgccaggggt cnaacaatcc cgnggncgac ccacgcgtcc gaggcntcat cgactaatga 60

agtcatcaaa gaaacgtgct cacggcgtta agcttcaaga aaccaaccat ggtccctcca 120

accaacaaca agaaccatct ccaacacgca actatcactc ccccctggac ttcaacctac 180

aaaaaccaag ctctctctaa aaagacaggt tgttgttaag acaagagtcc aanagtataa 240

gatttggtcc aaatctaagt aagaagtcaa gagttagtcg gtttgaagaa gaacaagaaa 300

ggattcaaga tttgggcact gagtagaagt acaggaaact ctccaaaagt tgatctttca 360

gataagaact cttctagtga tttggatgtc cttgatggtt tggatttcgc tttccaatan 420

gcgcaacacg ttcggtttga gaancggttt ttgatcaaaa tcctccggta attaaaa 477

<210> 1939
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-A5

<400> 1939

aaacagtggc cggccgacgc acgcgnccnc agacacactc gcgaaaatgg cggctcactc 60

ttcttgcaac tttgctttga cgaatccgat catctcacaa atcgattctt tctctaagaa 120

gaaactatct gttccattat acttcttctc tacaagaaaa gcattgacga atccttggtt 180

aggcgttgtt gattcatccc tctctctcac ttctccagtc tccgctctac aaactaatcg 240

cccaagaaga atccataaat ccgccatctc cagcttaccc accgcgaatc cagatttagt 300

ggtttctgan gcganaaagc ccaaatggtc atggagggca attanatcat ttgcaatggg 360

anagcttgaa gctaggaagc tcangtatcc aantactgga actgaaagca cntctcaang 420

ggtattttgg attgaaggaa cna 443

<210> 1940
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-A6

<400> 1940

ggtttaactc gaaatttcat tttatggatt cttttgtcat ctctcttcac ggcgattcaa 60

ctaacgtcgt ctcaacgcaa cactccacca ccacgctcta aagacgccga tctctgcaac 120

ggcgtgttcg tttcctacac ttacttaacc ggtaccaaga ttaaaccaaa cgacacgaag 180

aaccagccgt accggttcga atcagagatc acggtcctaa acaacggccg cgacgagctt 240

aaatcgtggc aagtctttgt taaattcgcc caccgcgaga ttcttgtttc agcgaccaac 300

gctgttctct ctgacggttc tagcctcccg gctagcgttg agaacgggac aatcttcgcc 360

ggggtttcca tcggcggatt tgaagacggc gatnatgacg gncggcgacg ttactcaa 418

<210> 1941
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-A9

<400> 1941

agntcgtgct aacggttcan agggtcgagn ggcgcgtccg cccacgcntc cgcggacgcg 60

tggggatcag tttgacgtag tccctccaga gaatgcttct gtaagttcat atgggaagaa 120

gtctgttgta gaggaacgtg tcaagaagaa gccccaacct gtgaagatta gtccttggac 180

tctagctcgt ctcaatgcag aagaagtttc aaaagcagca gcagaagcaa gaaagaaatc 240

caaaataatc cagcctgtgg cgagacggga aaatccattt gttggcttag aagcaagcag 300

cagcttcgga agcagtggcc gtagaatgtt cccaacaaaa tatgaaggtg ttaataataa 360

cgggaagcag cgaaggcaat caaagcgcat acggttacca gcaagaacta cctctagaac 420

cgctgatgaa tgttcaagac aaaagcaaca atgggggact caacta 466

<210> 1942

<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-B10

<400> 1942

tacgcttccn gtgccggtcc aaaattcaan gggtcgacnc acgcgtccgg cgacggcaac 60

gaagacggcg aagaatacgg cgggacacga ggattcccaa cgatcagatt ctttgacatt 120

ccacggcggc ttagatatca gcttctccga tccgctctct ctgtttgtgt aaatcatggt 180

gatcgcggct gcttcctctt tttccctcgg tccatctcat tgccatcaat cttacacgga 240

tgagttctct tcctccatac cttacaaaag aaccagcaat gcaagaaatc gtgtgtttga 300

tggatgtggc tctgctaatc tctctgtttt aagttccaga tgcaagattc ctttttttgg 360

atcagcattt catgtatcat ccggtggaca tgatctcggc ctcacgaaag tttcggttgc 420

tgctgattat tctgattcgg ttcctgattc atctttctat ggataa 466

<210> 1943
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-B3

<400> 1943

ngtcattagc tatattctag tttaatggtt atcatcaaga aaatctgaaa tcaaattttt 60

ggattgtaat ccatggctgc tcttggtaaa ggacataaaa cagctttcat ctcttgaatg 120

gcttcgtctc ttttgcaatt tttgagttag ccaagtgctc aagggagata cataatacct 180

gaagatgtcc aaggcaagtg atgccgtcag agaaccattg gtggacaaga atatggctgg 240

atnaaaacca agaccagccg tggatggttt atctcagcac attcgttgcg gtctgtggtt 300

cttttgcgtn cggttcttgt gcgggatact cttcacctgc tcangctgca attangaatg 360

acctttcatt gactaatagc tgagttttca ctctttgggt ccttactaac ttttggcgc 419

<210> 1944
<211> 422
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-B4

<400> 1944

ttctctctct tatctcgtct acttgatctc tctactctct ttcctctcta gctacttctc 60

tcccttacgt ctccaaggag atagattgac aaattctgtt cacaaaggaa aaaagttcct 120

ctgcatacgt ctctctctct atgttcttca tttatatgac ttgaataaca agtaaaggat 180

gaggcagaat ctgaaaaaag tagcacagat caaagtagac gaatctaaga agctatttcc 240

ttatgtcttc cgggttaaaa cttcttgtgg gaattgcgct aagagatcga agcctaagct 300

tatctatctt cttatcttct ctcttatctc aagttgcttt gtctttgctc ctcagctcct 360

ctgtttccct taaccctctg ctccggtttc tcatcgaatc ctcaanttaa gagaattgaa 420

at 422

<210> 1945
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-B6

<400> 1945

ttctangccg tcggtaccga acanaaattc ncgggncgac ccacgcgtcc gntcgtcctc 60

taaattgtcn aaaatgctgg ctangctcgc tgcgaagcgt cttctcgaga tccgtcaagt 120

tttccgtcaa ccaacctctc aggtgactcg tagcttatcg acggccttaa actaccatct 180

ggattctcct gataacaaac ccgatcttcc atgggagttt tcagaggcta accaatctaa 240

ggttaaggag attctctctt actatccatc caattacaag cagtccgcag ttattcctct 300

cctagatctt gcacaacagc agaatggagg ctggctccct gtttcagcaa tgaatgcggt 360

tgctaaagtt atagaagttg cccctatccg tgtttatgag gttgcaacat tttacncaat 420

gttcaacaga gcaaagggtt ggaaaatatc aaccttcnag tttgtggca 469

<210> 1946
<211> 447
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-B7

<400> 1946

ttgccgncgg taccgaacac naattcncgg gncgacccac gcgtccngaa naaactaaaa 60

acaaaaatgg cattgcaaaa gtttcctctc atggggctgc ttttgctcct aaccatcctc 120

gtctctgtga caacagcggt tgatgatcct gtttgcccgg cgacttccaa gctaagccga 180

gcaagtttcc ctaatgggtt tttgtttggc acggctactg ctgcgtttca ggtcgaaggt 240

gcaattaatg aaacttgtcg tggaccggct ctatgggata tctactgtag aagaaatcca 300

gagagatgta ntggcgacca cgccgatgtg gccgttgatt tcttccatcg ttataangaa 360

gatattcaag ctaatgaaga atctaagaca cagatgcatt cagactctca atcgcatggt 420

caagaatatt tcctcatggg agaaang 447

<210> 1947
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-B9

<400> 1947

atagggtcga cgnacgcgtc cnacccgann aagctgttct acacctccaa catgccaatc 60

attctccagt ctgctctcgt ctcaaacctc tacttcatct ctcagcttct ctacaggaaa 120

ttcagtggaa atttctttgt gaacctattg ggacagtgga aagaatcaga gtncagtgga 180

caatctatac canttagtgg tcttgcatat ttgatcacag ctccggcaag ttttgccgat 240

atggnangct catccattcc atgctctgtt ctatatcgtc ttcatgctca ctgcttgtgc 300

cctattctca aaaacatgga ttgaagtctc cgggtcttct gctagagatg tagctaanca 360

ngctaaagga acaacaaatg gtgatgccgg gacacangag agtccaactt acaaaaaggg 420

agctgnaccn ggtacatccc aaaaagcg 448

<210> 1948
<211> 417
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-C1

<400> 1948

aatcgtgagg cctataattt cccttcatct ccaaaatcat ttctcctcaa atttcttctt 60

tagaagatta aaaatcttct ctctaatctc tccactcttt cataaatatt ttcctaattc 120

ttctaccttg gtgtctgatt ctagcaccaa accattttct cctaccaaaa tctgggtttc 180

gatcaatttt aggtcttttg attcctactt gtctaatcgt cttgcaattt caaagatgac 240

agttgttgga gatgttgctc caattccaag gaggaacagt tctacttgct ctaatgatat 300

cgctgctccg ttattaccaa gagtgtcatg gagatgaagt tgctcatgat gaattcaatg 360

gagcttcntt tagtggcgcc ggttttaacc tcggccacga ctataantgg gtggctg 417

<210> 1949
<211> 613
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-H1

<400> 1949

cgttacttgc cnggcccggt ccanaattaa cgggtcgacg cacgcgtccg gaaaaaacac 60

acacacatct tagagagatg aaagagacta attttggcga agaaaacgcg cgttctggta 120

gttggtggga cgggatcatt ggggaggagg attgtaaagt gcgtgtttgg ctgagggaca 180

cgagacttat gttctccaag cggccggaga ttggagtgga catcgagaag gtgcagctac 240

ttctttcttt caaaagactc ggcgcacatc ttgtggaagg ctcattctcc gatcaccaaa 300

gccttgtctc tgccgtaaag caagtcgacg tggttgtctc cgccatgtcc ggtgtccact 360

tccgcaccca caacatcccc gttcagctca agctcgtcgc agccatcaaa gaggccggta 420

acgtcaagcg tttcttacca tcagaatttg gaaggtctac taggaatcat ccacagaant 480

aaacatttgt naaaaatgga atacaaatgc aattaaggcc nccgggattt nccganaaat 540

actcctccgt gccttgtttt gccccaanac ttcgggnggn aaatttaccn caaaatgggg 600

aaactttggt ncc 613

<210> 1950
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-F12

<400> 1950

accggtcana gaattcccgg gccgacccac gcgtcagaaa gcccaaaacc cagaagaaca 60

aaaaatctct cttttgaaaa ttctcctttt gcaaatcatt caagtgaagc acaannnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnagacttt ttgcgtttac ctgaaaaact 180

gttttgatct tttctgataa ctcttctcag atgagaagnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngagt atcaagttga tggagcattt 300

gttggnacat atgggataaa ttatggaagg atagctgaca acataccatc tccggagaaa 360

gtagttttac ttctaaagca agctaaaatt cggaatgtgc gtatatacga tgtagatnac 420

actgttccnt gaagctttta agtg 444

<210> 1951
<211> 620
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-F5

<400> 1951

tacaagtcca ngaaattccc gggtcgaccc acngcgtccg aaaaaattga caaacaaata 60

taaaatccct atgaacaact ctagagaaga ccagtggtta caacactatg agcaacaaaa 120

tattcaagag attactccgt gcttcaacgc cattaacatc gcgtcatcgt cgggatcttc 180

ccttggagac ggtggtgccg cggcacatga agctgctgga aggagatcta gggcttcgag 240

gagagccata ccaacaaccc tcctaaacgc aaaccctagc aatttccgag ccctagttca 300

gaaatttacc ggacgttctg ccggaggtga atccaaccgc agaaaaggtc cagtgacttt 360

ggatttcggg tctcccacta caatctccaa agaagctatc tttccaagtc tcaagcgatc 420

gaagtaataa caatcttgat catgtgcaca aactgantac gacacgtcac tgacttggca 480

ngtacaagaa tcaatgatgt cgtatcaatt taggcnaagg aaactaactc nggcgggtta 540

aaagcaaccg ggttacnatg attcaagatt tttccgangg gaatacnccc ggggaataag 600

taacctatga tgaaaagttt 620

<210> 1952
<211> 605
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-F6

<400> 1952

ggcgncggta caaatcatga aattcccggg tcgacccacg gcgtccgaac gaaactagcc 60

agagagatga cgagcaagat tctagttatc ggagctacag gtctcatcgg aaaagtcctc 120

gtagaggaaa gcgccaagtc tggccacgcc cactttcgct ctggttagag aagcctctct 180

ctccgatccc gttaaggccc aactcgttga gagattcaaa gatctcggcg ttaccatact 240

ctacggaagt ttaagtgata aagagagctt agtgaaggcg attaaacaag tcgatgtcgt 300

gatatcagct gttggtcggt ttcaaactga aattcttaat caaaccaata tcatcgatgc 360

catcaaagaa tctggaaatg ttaagagatt cttaccgtcg gaatttggta atgacgtgga 420

tcgtacggta gccattgagc caacgccnta annacacaaa gccaataagg gtgcattaan 480

ctgcaagata cttaactatg tcgtccaagg ttgcttgcaa ggcctttggt cncttgtttg 540

ggtcaatgcc aanttgggaa nccanattnn ccccccnaan anacaaaggt ttcaaaccca 600

atnga 605

<210> 1953
<211> 626
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-G1

<400> 1953

gaactgttta cgttgcccgg gntcggtcca aaattaacgg gtcgacgcnc gcgtccgnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngaattcga gaaccagatc 120

tactaattac ctgagagaaa aaagatctgc tctgtttgtc ttgaaacaga cagaagtcaa 180

caaatctttc atttgttttt tagcaaatca aagaaatggc cggagggttc gtcagtcaaa 240

cgccgggtgt tcggaactac aattacaaac tgacaccgaa agtgtttgtg acatgtttca 300

tcggtgcttt tggtggtctc atcttcggat acgatctcgg gatctcagga ggggtaacct 360

caatggagcc attcttggaa gagttcttcc cttacgtcta caagaagatg aagagcgcac 420

atgagaacga agtactgtcg atttgatagt cagcttctat cctcactctc ctcaagtggc 480

gcttgggtct cctcttgctc caacattaca aagttttcgg aaggaaatgg tcnatgttcc 540

gcggtggntt caccttcctc aaccggttcc ggctttcaaa gggntttgcc caaaanaatc 600

gcnaaggcct tcccaattgg gcccgt 626

<210> 1954
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-G10

<400> 1954

ctttncgcgg gcaggtaccg gtcanagaat tcccgggncg acccacgcgt cnancccacg 60

cgtccgannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna ccaaatatgg 180

gaacctgctt ctccagctca actaaatcca cggctgagat ctctcccttt gacctcgtcg 240

tcaaacctcc tcctccttcc gccgccgcca ccgnaccanc aacccaacga atccccaccg 300

cgaaaacaga aacatcgacg gtgagcttca ccgcaacagt gagattatac ggaccaccta 360

acagtctagt gacgtcgtat ctccgtttcg ctcttctcca caagaaagtt ccgctccgtt 420

tcgttccatc gggaggaaca aaaaccgaag aattcaaggt cgg 463

<210> 1955
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-G12

<400> 1955

anaagtcaag aattcccggg ccgacccacg cgtccggttc gttctctggc ggccgatccc 60

gtcgctcgct acctttttaag atatttttttt tatctaatga acctgaaatt gtaattaggc 120

atataattgg ggattatttg ctgaaattct catttctaga tcgaaaaaag cgaataattc 180

gttttcattt gattcttgcc taatcttagg gtgtctttat ttatctacca aaagaatgtc 240

taattatcga ggagatgatg ctgagtacat ggaagacgta gatgatgaga tggaagatgt 300

tgaagatgat atggatgagg agtttcgtgg tgatgatctt ggtgcttcag attctgacgt 360

tgaagaattt gactattcga acaataaagt agctgatacc acggctgagc aagctcggaa 420

agggaaaaga tatccaaggg ga 442

<210> 1956
<211> 630
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-G3

<400> 1956

ntgtttacct tgcccgtgcc ggtccnaaaa ttnacgggtc gacgcacgcg tcccggtgat 60

tctacctcaa aattaataca cacattcatt aaagaaaaac accaggacga gattactttt 120

ggcgaaaagt ccaaattagg acgagggggt atgactgcaa aaagttaaag ctgctgttaa 180

tgcagcttat ggtggcgttc ctgttatcat aaccagtgga tatgcagctg agaatataag 240

taagtcctta gaggactgcg tgttggtacc ctgttccatc aagatgctca tttatgggct 300

ccggtcgtag atactacttc tcgtgacatg gcagttgctg caagggaaag ctcaagaaag 360

cttcaggcct tatcttcaga agataggaaa caaattctac acgacattgc caatgccctt 420

gaagtaaatg agaaaacaat taaagctgag aatgatttaa tttgcgcaca cagantggta 480

tgaaatcttg gtancccnct aatttatgaa acccggggaa aatttccaag cccttgcaan 540

cttcccgttt ngccagctan cccnaaattg gaaganttca aatanggccc ttttttttaa 600

ancaaaanct ccagggttgc cagntggttc 630

<210> 1957
<211> 621

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-G4

<400> 1957

tacgttgccc ggnccggtcc aaaataangg gncgaggcac gcgtccggnc cacgcgtccg 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnact gtaataaatc taaggaaaca aaaaaacgtt acgaaagaaa aagcattaaa 180

aagaaaagct ttagagagaa aaaaaacaca gctcacaacc tcttttcaat tattcaattt 240

agctttttc cgatcctggt catcacacng cactgcgtct tctttgccaa gttcttcttc 300

atctttcgtc gttttcttag tgccacccaa agatcttcgt gcaggttcat tggcgtttgt 360

agtacataaa ttttccctga cacacagaaa aagaggattt gactgttata caatgtcaac 420

aaaagtgttg gatcctgcat ttcaaggagc tgggcagaac aggacgaacg ggaatganat 480

ttggggantc ccgtacaaaa gtccggagca tggaaagttc aaangggaag atacttacat 540

tgggcttgca gacaacacaa gaattaaang gggggtgcnt aaattggntt gganataaaa 600

ntttccggga ttngggaaaa g 621

<210> 1958
<211> 542
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-G5

<400> 1958

acgcgtccga nactatcgag taatacccag tagtcaatta tctggttttt gatcgattcc 60

atcaaaattt gatctttttt cttctctgaa gcgaaagctc tcgcctttaa cattttcgcc 120

aattgtgcaa atttactgtt ccacaagttt tcaaaatgaa ggcgatcttc aaccgtagag 180

ttgtcgtcga ctcatcttcg cgtctcacca agctgctcgc gaatccaact actcattctc 240

acctgaatcg tcaaactttc acttctctct ataaaccaaa ccagagccgc cattttcgaa 300

cacactatct tccttcaagc ccgtcgtctc ctcccgtgag ccgctttgac ccttctcaag 360

ctatggcgat cggagaaaat tcgtgggttt ttcgcgagcg ctttagggac aagctgtaat 420

tggaatccgt ggaaccaaat tgggtcatgg gtcccanttc ccaaaaaggg gttcgaattc 480

caagaggntt tccgggggtt tcaaaaggct tggtgggaaa cattgggctt caaagggtta 540

nc 542

<210> 1959
<211> 594
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-G6

<400> 1959

nggcccggtc caaaattaac gggnccaggc ccacgcacgc cntccgngga cgcgtgggcg 60

gacgcgtggg gtagaggtag ctcctcagtt ccagaaccag gagatgaagt tcatgagact 120

gaccaaaagg aacactatcc tcttcttccc tgattcagtt caagaggtca tgaatttcag 180

gacagtcaat gggtcatgtg aaggaattga agatcccgat catcccttca gtagtgaaag 240

gcctcgattc ggcctcatcc cggcaggttc aactgatgca atagttatgt gcaccacagg 300

agctcgtgat cctgtaacat cagcgctgca tatcattcta ggtagaaagc tcttccttga 360

tgcaatgcag gttgtgcggt ggaaaacagc atcaacctcg acgattgaac cttatattcg 420

ttatgcagcc tcattcgctg gatacggntt agggatgcat tcaaagtgaa atacggggat 480

ggtccaaacg cctatgacta gttggaacta agataatcct gaagcacaag nttagacaag 540

caaaggtaaa gtttngaaga anctggatcc agnnaatttc naaagctttc ccta 594

<210> 1960
<211> 556
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-G8

<400> 1960

aattcccggg tcgacccacg acgtccggag gaaagccaaa gagagagaga gagaaacaaa 60

aatggcgtca cagagttgct acaatggaat ccatcgtata aaaagggttc atcctctgat 120

tcactctctc acatttcatc gattctcctc atcttctctt ccattcaaat ctcacattcc 180

ctcttcacaa caacagcttc gtattcgctc atcttcttcg ctttctgatc ttggaaatcg 240

caggcattgt tcgtctactc gaggatttca attttggtca tacaagagaa gcgaagcagc 300

gtcgccgttc aagacgaggt acagagaaaa cgaagaaaga agaagatatg acgattaaac 360

cggcggttcg tatttccgac gggaatctaa tcatcaaaaa ccggacgatt ctaaccggtg 420

taccagatnt gtacacactc agacgaactg gccggtaaag gatcttcgtc ggagctgtat 480

tttacaagga agagagtaac acatcgtacc gatttggtna gccttcgcaa tttcccggtt 540

taagtctggn ttccgg 556

<210> 1961
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-F10

<400> 1961

aggtaccngt caaagaattc ccgggccgac ccacgcgtcc gtgaaagctt tgttttgagt 60

tattttcaaa gctaataaaa ggagtgcttt tatatttgat ctaagtattc aaatctttaa 120

agttgtggct aaacttcagt ttgtgtttgc ttttgtttat caagattgtt cttagacttt 180

ttcgagttaa aaaacttgtg tgttggagtc atcatcgtga tcaatggaaa ataaagttga 240

gaaggagatt acttgggtga ttaaaaattt ctcttctctg caatctgcaa caatatattc 300

tgatatattc gttgttggtg gctgcagatg gcgttgtcag gccttcccca agggatataa 360

taaggctgat tatctttctc tgtatctcga cgttcctgat aaagaatctt tacctattgg 420

atgaagaagc cacacaaaan tttc 444

<210> 1962
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-G1

<400> 1962

caagaattca ngggtcgacc cacgcgtccn aataaatggc gttacaaagg caactcctga 60

agagagctac ttccgatatc tatcaccgcc gtgcgatctc tctcctccgt actgatttct 120

ctacttctcc ttcgattgct gatgctccgc cgcacattcc gccgttcgtt caccagccac 180

ggccgtataa aggtccttcc gccgatgagg ttttacagaa acggaagaag tttctcggac 240

cttctctttt ccactactac cagaagcctc ttaacatcgt tgaagggaag atgcagtact 300

tgtatgatga gagtggtang gcgatatctg gatgcctttg ctggaatagt cactgtgtcg 360

tgcggtcact gccatccggg atattcctaa tgcgattacg ggaacagagc aagctacttc 420

aacacgcgac tactaattac ctgcatcatg ccaatggggg 460

<210> 1963
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-G11

<400> 1963

acgcgtccgc ccacgcntcn gcggacgcgt ggggagagat catgaggtca ccggtgcaac 60

tccaacacgg ctcanacgcc annaacggtt tccacacgct gcagcctcan gatcagaccg 120

atggtccgat caanagagtg tgtctcacgc gcggtatgca tgtccctgaa cacgttgcga 180

tgcaccacac ncacgacgtt ggtccggacc agtgttgctc ctcggtggtg cagatgatcc 240

angcgccgcc tgantccgtg tgggctcttg tgcggcgttt cgataatccg aangtttaca 300

agaacttcan cagacagtgc cgtatcgtcc aaggcgatgg actanacgtc ggcgatctcc 360

gggangtcat ggtggtcccc tgggactccc nggggtctca a 401

<210> 1964
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-G3

<400> 1964

cggtgccgtc aaagaattca ngggtcgacc cacgcgtccn ggagaaaatc gctcgtcgtc 60

ggtattcaag cntctgtgac tccgataaag cctanactan cnaggacngc gagagagaga 120

nananagagc tttggagttg tcgtatctct aaatcggagg caatttgagt gagataaaga 180

caaacgaagg aatcaagtgg actaccgaag cgagttttga gctttttcag anacggattt 240

ggngatttcc tgttgatatc gtctgcttag aggcttattt ggtaccagat gaaacanatc 300

tgagcttcgg aaggtatggc gaattcggan ggttcaatga aangtaatcn ttggcggaga 360

taacttctcc tcctcctggg tttagtgaac cctaanggng actanaaaat gtcccccgtc 420

gccggncgaa ggggcaanaa aaattaattc tacccgattt cggctgccng ctgaaacgtt 480

gct 483

<210> 1965
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-G4

<400> 1965

ggtcaaaggg ncgacgcacg cgtccaccca cgcgtccggg gcgctaaatg ataaatcttc 60

tacatcaaac ttgaaaattg aagctcttgt cttcaccaaa ttagtcttgg natcacatgc 120

ncctcctgtt tttcaccctt acattaangc tctttcaagt cctgttttag ctgctgttgg 180

tgaacgctat tataaggtga ctgctgatgc attaagggtt tgtggggaac ttgtcagagt 240

antacgccca agtactgcgg gaatgggctt tgattttaaa ccgtttgttc atccaatcta 300

caatgcgata atgtcccgct tgacaaatca agatcaggac caaggaggtc aaggagtgtg 360

ctatcacctg catgggtcnt gtgatttcaa catttggtga tcaactgagg gcaaaagtta 420

ccttcaatgc cttcctgtgc ttgttgatcg aaag 454

<210> 1966
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-G5

<400> 1966

aactcccagc gnaccgtaac ggtcacaaat tcccgggncg acccacgcgt ccncgatttg 60

cttcngcttt cttcgatttg cttctgcttt cancgcggtt caggtcactc ttttcncagc 120

catggcgant cctttcangg aaaccgtcgt gggttttatg atagtgatgt acatttttga 180

gacgtanttg gatctgacgc aactcactgc tctcaagctt ccaactcncc cgaaaacctt 240

ggntggtgta attagccaag agaagtttga tgaaatcacg agcatacagt cntgacaaaa 300

gctantttca ctttgttcat gannttttgta actatactta tgggactctg caattttgtt 360

ctttgngatc nngccttggt tttgggaana atgtctggaa ctgttttacc ganggttggg 420

ccntgatcca gagaatgaaa tactgcataa cnctttcaat cntgganggg tgttaaagac 480

at 482

<210> 1967
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-H1

<400> 1967

ttacccncca ggtagcggtc aagaattcac ggggacaaat ctttctttct ctttatttta 60

tcctaaaatt tcctatctga tttcttcctc ttgagctaaa tttgttacct tctgggtatt 120

caaaaagatc tcatttttc ttctagctct aaattttcag ggagtttctt tcttcttctt 180

ttgaagaccc tttgtcatga gctaattttt atcctctgtg tgttgagaaa gatctcattt 240

tttagcttta ggattgaggg agtttcgatt tttacttagc acttttcctt ggaagtgatt 300

tggtggaact catggtgatt ggtttcttcc taagggttat tagagattga gttctggatt 360

tttcacgcgc cttgggattt gatctaatgt actcnccttt ttcangtcnt aatccggntn 420

aaaattttaa atttggagat cntttggtaa aaaaggtgca aagttccgga nttttgtaa 479

<210> 1968
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-H2

<400> 1968

acgcgtccgg tggtttgttt gggaagcttg tggactagtc ggtgtatttt ttacatattt 60

cacagttttc acagtacagt ttggctttat nagaattggg atatgggaag aacttctaca 120

aggatcaata tggggttata ttcatccttt taatattctc cttcaatgta tttatgatca 180

ttgcaagtca tttaaaatgt atgacaaccg agcctggagt cctcccacga agattatgac 240

gagttggata gttagaaatt accaccggga actaagttta gctcttaact aaattcaaaa 300

ttctttactt taagaggagg atgattcgaa tacttaataa aatcaaagtt aagatatatc 360

tgttganaca tangcttcca gccaatatgg aaataatatt aangagc 407

<210> 1969
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-H3

<400> 1969

aactgtttac gccgnccggt nccggtccaa agaattcacg gggtcgaccc acgccgtccc 60

gacttttga nggataatcc ggcccaaacc aaaacattag gcaantaatn actgagggng 120

aacaagaacc tcatacatca agttgggtca aaagaggggg aggctgacaa tggacgagga 180

ggatgaacaa ccaacacaga agatcanatt ggggcatgcc agcaacacaa tggatcagca 240

tttacagtgc tcacagacca atgaaacaac gatatcatta taatgttact gatacaaggc 300

ttgcacaaca cattgaaaaa ngaaatgang atgggttatt tatcagcagt gtggcttctt 360

gcacggatct ctgggctttg atcatggatg caagaagtgg ctttacggat caagtttanc 420

aagtttatca ccaagccttt ctccacaang gaatgggatt atggaacaat ggggaaaaag 480

aattactata ttacagcagt gg 502

<210> 1970
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-H4

<400> 1970

canaacctgt atcatgttga tggagtccct tagcatactg ttatctggtc tggaccgcaa 60

ctgccttgct gttgttctct cacaaaatgt taagcataga gccaaaacta ttgcacaagg 120

atggaatcca ctgctggaat ctcttgacat ggatgcttgc aatggtaatt ctttggaggc 180

tcatgcattc ctgcaactgc tggccacttt tgctattgtt gctgatttta aagaagatga 240

actcttaaag ctgatcccca tgggttcacg tcgccgtcan gcagctgagc tctgcccgtt 300

cacttggatt aatctgaaaa aatgcctggg tgtgattgaa ggttcctcgt gaacagtgga 360

aaacagattt gatgccggtt aacnttggca tttgcgtttg aactcacaga acagttctca 420

acctgtcccc atta 434

<210> 1971
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-H5

<400> 1971

ancggtcaaa gaattcccgg gncgacccac gcgtccnaac cgatccaaat tccgagaaag 60

acaaccaaat tttccttttc ctctgcaaaa atgtttattg agagcttcaa agttgagagc 120

ccgaacgtga agtacacaga gaatgagatt cactctgtgt acgattacga gacgacggag 180

gttgttcatg agaagaccgt caatggcact taccaatgga ttgtgaagcc aaagactgtc 240

aaatacgatt tcaaaaccga tattcgtgtc cccaaattag gggttatgcc ntgtgggttt 300

gggaagaaac aatgggtnaa ctcctcaacc gcctgggtgg tgattgcnaa ccaaagaagg 360

gatccccgtt gggcaacgaa aggacaaaan tgcaacaagc gaaattactt ccgggtcact 420

aaactcaaag cttcaacnna ttcgtgtccg gatcttttaa cggtgaaaaa gatncaatgc 480

<210> 1972
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-A3

<400> 1972

aagattgggt gtacccagcc tcgtagggtt gctgcaatgt ctgttgccaa gagagtagct 60

gaggagtttg gttgtcgttt aggagaggag gtagggtatg cgattcggtt tgaagattgt 120

actggaccgg atacagtgat caagtacatg actgatggta tgcttctcag ggaaattctg 180

atagatgaaa acctctctca gtactctgta atcatgcttg atgaagctca cgagcggaca 240

atccacactg atgtgctgtt tggtcttcta aagaagctga tgaaacgtag actcgacctt 300

cgtctgatag tcacgtctgc cacattggat gcagagaagt tctctgggta cttctttaac 360

tgcaacattt ttaccattcc tggaagaaca tttcctgttg agatactata tac 413

<210> 1973
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-A6

<400> 1973

aaagtgaatg ggctaaacaa agctcgggct attctcacca cggccaggaa gaagaatcct 60

ggggggggctg agctatggtt agctgctatt cgcgctgaac tgaggcatga caacaagaga 120

gaagcagagc acttgatgtc aaaggctctg caagactgtc ccaagagtgg tatcctctgg 180

gctgcggaca ttgagatggc gccacgtcct cgacggaaaa caaagagtat tgatgctatg 240

aagaagtgtg atcgcgaccc tcatgtcacc atagctgttg ccaagctctt ttggcaagac 300

aagaaggtgg agaaagccaa gagcatggtt tgaacgtgct gttaccgttg gcccagatat 360

tggcgatttc tgggcgttgt tctacaaatt tgaacttcaa catggctctg a 411

<210> 1974
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-B1

<400> 1974

ccatggctat tgggtctcac aggttgtctc agcaaggtgc catcaccaag cgtatgactg 60

ccattgaaga gatggcagga atggatgtcc tgtgcagtga caaaaccggg acactaaccc 120

tcaacaaatt gagtgtggac aaaaacttgg tcgaggtttt ctgcaagggt gtggagaaag 180

atcaagtcct attatttgca gctatggctt ccagggttga gaaccaggat gccattgatg 240

cagccatggt tgggatgctt gctgatccaa aggaggctag agctggaatc agggaagttc 300

acttccttcc attcaaccct gtggataaga gaactgcttt gacttacatt gacggcagtg 360

gtaactggca caagagtcag taaaggtgct cctgagcaaa ttctccgaac ttgcca 416

<210> 1975
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-B10

<400> 1975

gtggcgagat cttggatcat cttcgcttgg ccgcttgggc ggtggtcgtc ggcatcgtca 60

ctaattaatt attgtgatta agaaaaaatg ctaaattgag tttcgtcgtc ttctgcttct 120

gcttaagctt cttcatcatt tagctccaga ggcggagctt tcttctctct ctgtggacga 180

ccatggcggc ggacgacggc gaccccacta aattcgctgc aatctacgac tcatcctctc 240

cgtcacaccc tcttctctct aaaccctcca cgtccgctct cgattctccg cgtcgaagtg 300

atcccgaatc cgacccaact cagtttcttc agatctccta caattttggc ccaagaactt 360

tcaaggacat ccctttccta cttctcttcg atcttctcgt actctccaa 409

<210> 1976
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-F8

<400> 1976

aggctgatca tttggttcag cagattgatg aagtcgatgc ncaggaactg gatttcccag 60

gaggcaaagt cggttacaca tcggagatga aattcatacc ggaatcatct tcaaggagga 120

ttccatgtta ccgggttctt gacgaagacg gacgaatcat ccccgatagc gattttattc 180

cggtgagtga gaaactcgct gttagaatgt acgaacaaat ggcgacgcta caagtaatgg 240

atcacatctt ctacgaagct caacgtcaag gaagaatatc tttttatctt acttccgtcg 300

gagaagaagc cattaacatc gcttcagcag ctgctcctca gtcctgacga cgtcgtttta 360

cctcangtac cgagaacctg gagttctttt gtggcgtggc ttcacgttgg aggagtttg 419

<210> 1977
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-C3

<400> 1977

gcgtcnacgg acacgtgggg cctgagtttc aatccagatg gaaagactgt gctttgtgga 60

ttgcaagaaa gtctcaagat tttctcatgg gagccaatta gatgtcatga tggagtggat 120

gttggatggt caagattgtc agatatgaat gttcacgagg gaaagcttct tggttgctca 180

tacaatcaga gttgtgtagg cgtgtgggtt gtagatctct cgcgtactga gccatgtatg 240

gctggagaca ctgcgcaatc aaatggtcat ccagagaaac gatcttgctc aggaagagat 300

ccagtagttc tcaatgataa taactcaaag acagttctcg ggaagctgtc cgtttcccaa 360

aatgtagatc cttttattga aggaaacaaa gtctccaagg aagattatcn gttcccaana 420

actcctgatt ctttcga 437

<210> 1978
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-C9

<400> 1978

gggggacgt tgncgcctga gcccaanggt aagcctcncg ggccgaccca cgcgtcaagg 60

acaatgcaag agaagagaac acacaaggaa tagtgaacat ggttctccgt tgctgtgcaa 120

acgccttact tggtgccctt gactatctca acaagttcac catcaacttt gctgcaataa 180

caggggaagc gtattgcacc tctgcgaaaa tgacttacta gctgttaata cgcaacctac 240

tgtcagctgt atttgtcgaa acggtttcca ccagaatcct aaccgggaat agtctttgtc 300

ctgtcagccg catatgcatt cgcnacatgg gctgttctga ggaggagtga gcagcctgng 360

tanagattcg tacgtggtgg ctgtactggg gttgggtgtt actgattggg atattggctt 420

tcctttgtac atgttcn 437

<210> 1979
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-D11

<400> 1979

cgttgacatg cntcgcgctc cgaagcggtc tcaaantccc gggcccgacc cacgcgtcaa 60

cagagatttt tatagtttgg tttctttgac cggagaatct cgattaggtt acgatggtgt 120

ttctctcgat tccaaacggg aagactttat cgatcgacgt gaaccctaat tcaaccacca 180

tctccgcctt cgaacanttg gcccaccaac gtagtgatgt tccacaatct ttccttcgtt 240

actctctccg tatgcgaaac cctagccgcg tgtttgtaga ttcaaaggat tccgattcga 300

tcttattgtc cgatctcggt gtttctcgtt tctctactgt gattatccat gtcctgcttt 360

tgggtggtat gcaagcggct ccgccgaagc ctcgtcttga tttcctcaat tctaagcctc 420

cgtcaaatta tgtagncggg tttggggtcc tgggggna 458

<210> 1980
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-D12

<400> 1980

tcccggcccg acccacgcgt caaagtgaga agctcgctgt tactcatcgt cgagcctctc 60

gatcttcaat tccctttga attgaagaag cagatctctt gctctctcta tttgacgaac 120

aagaccgaca ntaatgttgc ctttaangtt aagacgacga gtccgaaaaa gtattgtgtt 180

aggcctaata ctggagttgt tctcccgagg tctacttgcg aagttcttgt gancatgcaa 240

gctcaaaagg aagctccttc cgatatgcag tgcaaggaca agtttctgct tcaaggtgtg 300

atagctagtc ctggtgtcac agccaaggaa gttactcctg agatgtttag canagacgct 360

gggacatcga gttgaggaaa nnaaaactga naagttacta ngttggctcc aacaannncg 420

aacattnacc gggtttacaa 440

<210> 1981
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-D4

<400> 1981

acgcacgcgt ccnaaagctc ttctcttgtc tgatttcttc tgaatttccc ctctaagtcc 60

cnccanttcn tctcaattag ctanaaagtc aattccttta caancgttct gaanaatttg 120

gtcaaangtt ttggctttna gtacccaatt tttaatcctg gcgataaact gaattgaaaa 180

cggttccaaa agttacatca cctgaaaaca acagtgcttt tgantgtgtt ggtggtttgg 240

agtgcttgat aagtttaatc acggnccttg aaanggggtc ctgcttatca tcatctggag 300

gtggangaag cacgagatta tctccatggc tctcctcatg ttcctgggtc ctgggaagac 360

gangaagcct cccanataag agacctgggg tcctggtagt tcttcgttng anaacaccga 420

tgaaccacnt catcataaga tc 442

<210> 1982
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-D5

<400> 1982

aaactctcag cgntccgtaa cggtcaccaa attcccgggc cgacccangc gtcnaataaa 60

atcatnaatt acaaacaaaa atggttttgc aaaagcttcc tctcattggg ctgcttttgc 120

tcctgaccat cgtcgcctct ccagcaaatg cngatggacc tgtttgcccg ccgtcgaaca 180

aactaagccg ggcaagtttc cctgaanggt ttttatttgg cacggggtac tgcggcatac 240

caggtcnaag gtgcgattaa tgaaacttgt cgtggaccaa ccttatggga catctactgt 300

agaagatatc naagagaggt gcaataacna taacggggga tgtnnccgtt ganttcctcc 360

atccgttata agggaagata tccaactaaa tgangaatct aaacacagac nccttanaa 420

tgtcaancgc atgggcaann aatatttcct ccatgggaaa anaggaaaaa agg 473

<210> 1983
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-E1

<400> 1983

ttacgcantc ggtggccgtc anagaattaa agggtcgacg cacgcgtccn cccacgngtc 60

cgcttcattg cctcttaagc cccaattatg acaacaaacc tcacgcgtac tgtcttcttc 120

gtcttgttct tcttcatcta ccatgaaagc tcttctcttt cttcttaccc ttttcctcat 180

cctcccaaac ccaatctcag ccattgattt catcttcaac ggcttcaatg actcatcatc 240

taatgtctcc ctcttcggga tcgcaacaat cgaatcaaaa atcctaactt taacaaacca 300

aacatcgttt gcaactggtc gtgctctata caacaagaac catccgtaca aaagatccaa 360

tcacatcctc tgttttacct ttctctangt tctttcatct tcaanatggn tcccntacaa 420

agaaaacacn tcctgggtca cgggaatcgt cntcctcttt ggancatcac tgggatca 478

<210> 1984
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-E3

<400> 1984

gtgcccgtca nagaattcaa ngggncgacg cacgcgtcca agcgtctctc cggactcaca 60

cctcatcgaa atttggccat ctcatctggc ttcttcccct ccggcgttgg ntaaccatca 120

ntanttctcg cgccggcttc gantggaaca atatggatcc tcgtcaattc naacacaccg 180

ttgttgctga taatganatt cacagcattg ttatgtcata tcttctgcac aactgcttca 240

acgaaactgc ggactcactt gcttcttcca ctggagttaa gcancctgca attgatcgtg 300

ataacatgga gagaagaana caaataatac attttatact gganaggaag gcgttgaacg 360

gttttgaact aactgaacaa ctagcacaag acttgcttga gaaaaacaag gatttgcaat 420

tcgattttcn atgccttcat tttgtggagc taatctgtgc tgggaa 466

<210> 1985
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-E5

<400> 1985

cagcgnccag taacggtcan agaattcccg ggnaaagaca aactcacnag agtaaacata 60

cgcaacctgt cgtgtaagta aaaacaattt gatagtgatc tctctatgtt tggtggagga 120

agagggccta tgggtggcgg cggaggtatg ttacgcgccg ccggtcgtgc gatgacgagg 180

accggtgtag ccaacggtgg tattcaagat ccctttgctt cttcatcatc atcgtccacg 240

tcgtctccgg ctggaaacgc ctctgtttcg catgtccaga aacagagatc ttcttcttct 300

gggtcgaata atctgacgta ttccgcggct tctgggttgt tgttgaatct tccggtggct 360

gcaacctccg ggatggagcg gcggcggtcc tttttccttt gttaattctg gangttatga 420

tgattttgag tgggtttctg angaaagaag atgattcccc tgtttggctc cg 472

<210> 1986
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-E6

<400> 1986

agtaacggtc anagaattcc cgggncgacc cacgcgtcnn cggacgcgtg ggcggacgcg 60

tgggctgacn cntgggcgga cgcntgggcc atgcttggag ctcttatgaa aagtangcat 120

gggggaaaga tgagcttcag cctcggacaa aagatggcac tgatagcttt ggtggccttg 180

gagcaactat ggtagattct ttanatacac tctatataat gggtctagat gagcagtttc 240

aaaaagccag agagtgggtt gcaagctcat tggatttcga caacgattat gacgccagta 300

tgtntgagac aaccataaga gttgtaagct gacttcntaa gtgcgtatga tcnttctggg 360

gacaaaaatg ttcccttgaa aaggctaang atatttgcat ncaggattat tgcctgcatg 420

gaatactcca acgggtatac cttacaatan tatc 454

<210> 1987
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-E9

<400> 1987

aggnaccggt caaagaattc ccgggncgac ccacgcgtcc naaaattctc ggcgaanaag 60

tgaagtttcc ggcgatcaga ggtgatatgg ataaggagaa ggatcatgaa gtggagtggc 120

ttgaagctca gaagatagaa ataagcgttg acttattagc tgcagcgaaa caacaccttt 180

tgttccttga aactgttgat aggaatcgat ggctctacna tggtcctgcg cttgaaaaag 240

ccatctacag gtacaatgct tgttggcttc ctttgcttgt taaatactct gagtcatcat 300

cggttagtga agggtctttg gtccctcctc ttgattgtga atggatttgg cattgtcaca 360

ggcttaatcc ggtgaggtat aattctgact gtgagcaatt ttacgggaaa attctcgaca 420

attcctggag ttccttcctc cggttna 447

<210> 1988
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-F10

<400> 1988

gtttcgagct atcgtattca accaccgatc tcagatctct aaatctccga tggaccgttt 60

gatttcagat tacttcgaac ggagcatcaa agctctagat gtcngtaacg ccatccgcga 120

cggtatcgaa cagatccgtc aatgggagaa acttgccgat attgtgatct ctgctttaga 180

tagtcaccgt ccgatcggag aaggtcagct ccggcgagct aagaaagctc tgattgattt 240

agcaatcgga atgcttgacg anaaagatca tccttctgga accantctag ctcatcgtaa 300

ccgttcattc ggaagagtca aagacagtca ccaccgttcg attggtcatt tcaagatctc 360

tttcttggag tgtttcaaag atnaagggtc agcttctaag caatttacaa 410

<210> 1989
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-F2

<400> 1989

ngccgtcaca aattcacggg ccgacccacg cgtcnaanag atggtnaatg gntcnatttc 60

ctttccaagc antgganatg tganttctgg aggaacttcn tgggccttta agcanccatc 120

tttggaaatt gggaactana aagaggaaaa ngaagtacag acaggcnagc ccaagggagt 180

cttgccattg tccttttttcg aggatgagaa atcgganacc tctgacactt tggttcatga 240

acatagtttt gttttagcca gcgattttcc tgtgagagag aaaactaagg ctccaagtcc 300

aactgtgtcc atcagtgact taatatccag attatacagt caggtggaan gagaanaatg 360

ctgttaatat tttacaaaac tctgcaactg cttctaatga aattaatggn gangatgatt 420

catgggaant tcagggcccc aaaatgccca taacagattc at 462

<210> 1990
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-C2

<400> 1990

cggtgccggt caaagaatta acgggncgac ccacgcgtcc ngcttagatg ctttgacatg 60

gggaaattga ctctcagcct tcanggctct gatcattgcc aattcttaac gacggtacca 120

tcatgacaat ctcaaangac agagttnagc catctcccac acctgatagc tggnaactta 180

aagaaatttt tgctactgga gtcgttctag gangctacca ggccatcatg actgttattt 240

tcntctgggc ggcgcacaag actgactttt tctcggacac attcggtgtg aggtccatta 300

ngggacaata accacgagct aatgggttgc ggtgtactta caagttagta tcattagtca 360

agctctgatc ttcgncacaa natcaacgag ttgggtcntt tgttgaacgt cctggaagca 420

ttgctgatga atgnttcccn cattggcaca actgatttgc tantttgatt g 471

<210> 1991
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-F4

<400> 1991

tgcgnccgtc ataaattcaa gggccgacgc acgcgtcnac tcagcaatga ttgggangag 60

catttggctg tgaagcattt ctctgttgaa ggacagcttg agttcaaagc tatcctcttt 120

gttcccaaga gagctccttt tgatctcttt gacactaatg aagaagcnca acaacatcan 180

ngctctatgt ccgtcgtgtc ttcatcatgg acaantgtga agacatcatc cctgagtacc 240

tcggatttgt gaaaggtatt gtcgactctg aagatcttcc tctcaacatc tcgaganaga 300

cattgcagca gaacaagatc ctcanggtca tccgcangaa ccttgtgaag aagtgccttg 360

agctcttctt tgagattgct gagaacaagg aagactacna caagttctac taggctttct 420

ctaagaancc tgaagctcgg tatccatgaa ggactcccaa aaca 464

<210> 1992
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-H12

<400> 1992

tcccgggtcg acccgacgca ctcntccgcg ctgtcaacgc tgggcgtgag tgagatctaa 60

caatcggtag cgaattttgt aaattttgtt ccggttttga agtctcaatc tcggggttcc 120

ggttttagca actacttctt ctgacatttc agctgttcta gttgatcttt atatacttta 180

tatgatctgg gattttgaag agtttttagg gaggaaccaa aatttctgag agagaaaaat 240

gaagttatcg aactgcgttt tgatcttcct tctaagtaac acattctcct cgatttctgc 300

tttccgtctg agtcggagtc aaccaactga agccaatttc aagnaatgct ggtgatgtgt 360

tggaagatga tccgtgggaa agactggaaa agtccttggt taagaacctt ccaaagttaa 420

antccaccaa gaagaatact tca 443

<210> 1993
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-H2

<400> 1993

ttatcatcgt atatncaacg ttatggtaga gttgaagaag atatcgccaa gagatttatg 60

aagcaaattg gngctggttt ggaaattatt catgataatc acattatcca tagagacttg 120

aaacctgaga atattttaat tgacggatct ggtgatgatt tggtgttgaa gattgccgat 180

tttagtcttg caagaaaact acatccgggc aagtatcttg aaacagtgtg tggttctccg 240

ttttacatgg ctccngaagt tcttcagttt cagagataca atganaaggc tgatatntgg 300

antgtacgag caatcctttt cgagctactt cacgggtatc caccantccg tggtaataac 360

antgttcaag gtccaaagga caatcacatc caagtacaac tcctccaant cctctcgggc 420

ttaa 424

<210> 1994
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-A10

<400> 1994

gcgttcggna ccggtctcan attcccgggc cgacccacgc gtcaactccn ctgcacattt 60

ctgggttctt ctcttcttat gcnctgtttc ttttaagaca cagaanaaac agtacagagt 120

tgagattttc ttaaacaaaa gtgaaaagag aagaaacaag tgacagctca aacggacaaa 180

aaccactctt gggtctttct tgcttctgat tctttctctt ctctaactan aagaaaacat 240

ctagaagcta aaaaaatgtc ggaaggagta gaagcgatag natcaaatga caacggaaca 300

gatcaggtaa acggaaaccg tacngggaaa gataacgaag aacacgangg ntccaccggt 360

tctaacctaa gcaatttcct atggcacggt ggctctgtct gggaagcttg gttcanctgc 420

gcatctaacc aanttggt 438

<210> 1995
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-A2

<400> 1995

gtgccggtca naaattcacg gggncgacnc acgcgtccnc actttcttct tctttgatca 60

tatcatattt atcttcacta caaaaaaaac aagtaaaata aagccaatct tcttaaatat 120

ctccagaaga tctatcagca tttacgtatt caggtcctcc aatttcttct cacaaagaaa 180

aaggaagaaa aaaaagaagt tgtgagagca aaaaaaaaat ggcagtggat aaagtgattg 240

tgaagcagag gaacattata ttggttggaa ttccaattga tgaaagtggc gtagaggttt 300

taaaatgggc acttgaagaa gttgcaaaac atggagattg tgttgttgtt gtccatgttt 360

gttttactta ttaccgtgcc ttgaaaagca agtcatcgct ggatcggtac ttaaaaccat 420

acattgaatt ctgctcaaca aagaagattg agctcaaagg agaagtgt 468

<210> 1996
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-A4

<400> 1996

ggtgnccgtc atgaattaac gggccgacgc acgcgtccaa gtaaanttac aggtaatgta 60

tttatgtaca tatagaattt ttagataagc tcaaaaagct ggtttgttta gtgaataggg 120

aaagttttgg gtcgtcgatg aatgtgtcat tttctcttat cccaaatttg ctcgatcata 180

cccaataatt ggatggcttt ctttcaacaa tcggtttttc cttctatttc cccacatgta 240

ttatatatat atctcatata tttctttaat aattataatg tttagttgga aattctatcc 300

agattctgtc cacatatatg attcgaatat tatccgaaat taggaacaag tagaatataa 360

atatattatg cataatcatt aacccactgt annnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ncnaa 465

<210> 1997
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-A7

<400> 1997

cacgcgtccg cngacgcgtg gggttanctg canatgtang gaaagaatca acaaanatat 60

aatttatnaa ttggtggaga aataccaagt agcatcaaat ggnctcacgt cttttaaaga 120

cacttcctca atattcacca ttagtaatga ttcttatctc tagtcttagc ataatgatgg 180

tgtggcaggt atatcggcaa aatcttcata ncganctagg cgcactaaag ttgatggtca 240

aaataatcag aaanacagaa aaagttcana aacagaaaga nttggatgga ttataaaanc 300

aaattcccta agaattanca tgatntggat tctcatttac canattccaa tanangtaat 360

gataattaat agagaaatcc tangatgtta agttatcaaa gagacggtaa ataanccggt 420

tcagcat 427

<210> 1998
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-A8

<400> 1998

aanggtcaca gaattcccgg gncgacccac gcgnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnngga gaattaaaca gagaaatttt ttggtctcag gtttatatca 120

aagatgcaaa acgttcctga agaccaaaac aaaatggtca tagatgataa acttcctcca 180

ttttcatggg aaanaaagtt gaacagtcaa gcaaagactc cttctgagtt caaattgagt 240

naaacgagat cacatgcatc tgtttccaan taggctacag attgtggcgt cacagcaaag 300

acgaagccgc caaaagaaag aacttcgatn ttcgatatct tcagaaaaac aacatattac 360

gggagatnac ggtgtccctt taagaggaan tggttcaaga agcattggaa ngagttacaa 420

agggtgagtt tcagcagttc aagctgttcc caaaaatttg tgagg 465

<210> 1999
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-A9

<400> 1999

ggcctccggg ccgacccacg cgtcnnccca cgcgtccgat ggtaaccccg tcgctatcct 60

cagcgatatt gagatttata agcatccaaa ggaagaaagg atagctagaa catggggtac 120

gacggctcca ggtttgcctt acgtagacga ggcgataact aatgctggaa actggctcat 180

tgggggtgat cttgaggttc ttgagccagt gaagtacaat gatgggcttg atcgtttcag 240

gctttcgcct gctgagttac gtaaagagtt ggagaagcgt aatgcggatg cggtgtttgc 300

tttccagctg aggaatcctg ttcataatgg tcatgctctt cttatgactg atactcgtag 360

gagacttctt gagatgggtt acaaaaaccc tattcttttg cttcatccgt tangtgggtt 420

taaaanggcg gatgattt 438

<210> 2000
<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-B11

<400> 2000

nacgcgtcaa acccgatcan gctgttctac acctccaaca tgccaatcat tctccagtct 60

gctctcgtct caaacctcta cttcatctct cagcttctct acaggaaatt cagtgggnat 120

ttctttgtga acctattggg acagtggaaa gaatcagagt acagtggaca atctatacca 180

gttagtggtc ttgcatattt gatcacagct ccggcaagtt ttgccgatat ggcagctcat 240

ccattccatg ctctgttcta tatcgtcttc atgctcactg cttgtgccct attctcaaaa 300

acatggattg aagtctccgg gtcttctgct agagatgtng ctangcagct aaaggnacaa 360

cangtggtga tgcccgggac ana 383

<210> 2001
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-B12

<400> 2001

gagggaaagt tgaaacgcct acgcgtgtnn ganancggtc tgcaggantc ccgggcccga 60

cccacgcgtc aagcgacggc aacgaagacg gcgaagaata cggcggacac gaggattccc 120

aacgatcaga ttctttgaca ttccacggcg gcttagatat cagcttctcc gatccgctct 180

ctctgtttgt gtaaatcatg gtgatcgcgg ntgcttcctc ttttttccctc ggtccatctc 240

attgccatca atcttacacg gatgagttct cttcctccat accttacaaa agaaccaagc 300

aatgcaagaa atcgtgtgtt tgatggatgt ggctctgcta atctctctgt tttaagttcc 360

aagatgcaag attccttttt ttggatcagc atttcatgta tcatccgggt ggacatgatc 420

tcggcctcac gaaaagtttc ggttgctgct gattaatccg aatcggntcc tggatca 477

<210> 2002
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-B2

<400> 2002

gtgnccgtca aagaattaac gggncgacgc acgcgtccna gtcaccaaca gactggggan 60

taaaacatgt taaagggatg cttcnttttg ggacctcctg gtactggnaa aanccttatg 120

gcacggcaaa ttggnaagat gcttaatgga aaggatccaa agatcgttaa tgggcctgan 180

gtgctgagca agtttgttgg tgagacagaa aagaatgtaa gagacttatt tgctgatgct 240

gagcaagacc agaggaccct tggtgatgct aagtgagttg catgtcatta tttttgatga 300

agattgatgc tatttgcaag tcangaagtt caaccaagag atggcacang tgtccatgat 360

aatattgtaa accagctttt gacaaaagat agatggtgtg gangccttaa acaatgtttt 420

gccgaattgg aatgacaaac agaaaggatt tgccttgatg aagcnccttt aaagg 475

<210> 2003
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-B3

<400> 2003

gttctacgng cgctgtgctc gtcannaatt acagggncga cgnacgcgtc caagttctta 60

taattaacct tttgcaattt gtcttgtgtt tctcacaaca cananacttg taaaagtgtt 120

aaaaaatcaa gatctgaaaa atcttatcac cgcttctagg tttttcagtt ttttttcttc 180

cttttcctga tcnaaattaa cttatatttc ttagggtttc acttcttgaa acatttaatc 240

agaatnaatt aacctctcna gggctttcat ggcgaatcca tggtggacag gacaagtgaa 300

cctatccggc ctcgaaacna cgccgcctgg ttcctctcag ttaaagaann nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnagaagt 420

cgataacanc aacaacgacg acgatagaga caacntgagt tgg 463

<210> 2004
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-B7

<400> 2004

tcccgggncg acccacgcgt ccgcccacgc gtccgtgagt ttctacaggt cagattccac 60

ccgcatcatt cagaaatagt tgcgagtgga agtttagatc tcgaggtccg cttatggaat 120

accacaactt ctgaatgcat taagatctca tctattctat cggcctattg cttctatcgc 180

tttccatgct gagggtgaac tacttgctgt tgcttctggt cataagctgc acatgtggca 240

ctacaatagg agaggagagg gatcatcacc aactgttgta ttgaagacga ggcgatcttt 300

gagagctgta cactttcanc ctcatggggc tccattactt ttgaccgcag agtggcaagt 360

gaatgagatt gattcattan attcctcaat gtctagagca acatctatgg gctacntgag 420

gtatccgccc cctggctaat ttgttca 447

<210> 2005
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-C1

<400> 2005

ggtgccgtca agaattcaag ggncgacgca cgcgtccnat tcgaacaaaa aacaaaagaa 60

atggttatgg agcaagctgg aacgacatcg tattcggtcg tgtcagagtt tgaaggaaca 120

atactgaaga acgcagattc attctcttac ttcatgctcg tagccttcga agcagctggt 180

ctaattcgtt tcgctatctt gttgtttcta tggcccgtaa tcacactcct tgacgttttc 240

agctacaaaa acgcagctct caagctcaag atttttgtag ccactgttgg tctacgtgaa 300

ccggagatcg aatcagtggc tagagccgtt ctgccaaaat tctacatgga cgacgtaagc 360

atggacacgt ggagggtttt cagctcgtgt aagaagaagg tcgtggtcac gaaaaagcct 420

ccagttatgg tggagaaggt ttgctaangg agcatcttaa a 461

<210> 2006
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-066-Q1-E1-H10

<400> 2006

ncangctcnc cttacacgag ccatctctca caatggctct gaaaactgcg tctctatacc 60

agctttctct gctctcaaat ccacttctcc acgcaccagt ggcaccatct cttcccgtcg 120

acgaaacgcc tccacgatca gtcactctct ccgccctctg gttcgtgcag ccgccgtaga 180

ggcaatcgtg acaagttctg attcgtccct ggttgataag tcggtgaaca cgatcaggtt 240

tctggcaata gatgcggttg agaaggcgaa atcaggtcat ccaggtcttc ctatgggctg 300

tgctccgatg tctcacattt tgtacgatga agtcatgaag tataacccca agaatcctta 360

ctggtttaac cgtgatcgtt tccgttctct cctgctggga aatggatgca atggttgcaa 420

ataacnc 427

<210> 2007
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-D7

<400> 2007

acgcgtccgg tttcttaagc gagaacattg tgaaaccgcc atattcgtct tctaaatctt 60

gtggagtgtc ccaatggaaa acagtcacaa gatttagaag acgaatatgg cggtttctta 120

agcgagaaca ttgtgaaaga tttccgagaa tatgcagatt atgttttcac tgaatacggt 180

ggaaaagtga aaaactggat cactttcaac gagccatggg tcttcgctca tgcaggttac 240

gacgtaggca agaaggcgcc aggacgttgt tctcgctacc ttaaaggttg tgaagaccga 300

gatggacgat caggttatga ggcttatcta agttaagtca caacctcctc aacgctcatg 360

cagaagctgt tgaagttttc cgccaaaagg ttaaaggtgg gaaaattgga a 411

<210> 2008
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-E10

<400> 2008

ctctctctgt tgtttgtttg ttgacaaatc tctcaaaacc atttgttttg caatcgcaga 60

tccgtttttc ttcgggtctc atcacaatga atggcttctc tgatcttaat ccttctgaga 120

ggtacgcttt gtctgatcat caatgatgct tataataatc tcatttatac atgatcttgc 180

ctctatatat ttgttcatct tagtaatctt cggtctcagc ttccattttc gtctcccact 240

atgtttctag gattttgtgt tacttttgtt agaaaactgc gatttttgtg ctagtgtttg 300

tttctccaag atcaatggaa ctcgttgcct aaaattcctg attatagtta cataaacatc 360

aaatggttct aattggtctt tgatc 385

<210> 2009
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-065-Q1-E1-E11

<400> 2009

tggtgatgga accactgtgg ctgaagctgc tgattcacat accatggctc gtgctttccc 60

gcatacctta ggccagcctt tggctcactt cctcagggaa actgctcaag ttcctgatgc 120

gcacatcatt accgagcttc cttcagttag agttggaatt gtgttttgtg gaaggcaagc 180

tccaggtgga cataatgtga tctggggtct tttcgaggct ctcaaggtgc acaacgcaaa 240

aagcactttg ctaggatttt tgggtggttc cganggtcta tttgcacaaa aagactccaa 300

gagattacag atgatataac ttcagactta caaaaaccaa ggtgggttat gatttgctcg 360

gaagaactaa ggatcagatn aaaacaactg agc 393

<210> 2010
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-E3

<400> 2010

acgcgtccgt tcgctcttca atttatattt taccaaatca tcttctctct ttctctatct 60

ctcaaaacaa aaagtaacca tgatcaagac aaagacgacg tcccttctct gtttccttct 120

cacagccgtt atactaatga acccatcttc ctcctccccc actgacaatt acatatacgc 180

cgtttgttct ccggctaaat tctcccctag ctccggctac gagacaaatc ttaactccct 240

cctctcttcc ttcgtcacct caaccgccca aacccgctac gccaacttca cagttcccac 300

cgggaaaccg gaaccaaccg ttaccgtata cggtatttac caagtgccgc ggcgacctag 360

acccaaccgc ctgctcgacg tgcgtatcaa gcgccgtcgc acaagtcggg ag 412

<210> 2011
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-E4

<400> 2011

attgttccgc cgctaccggt caagaattcc cggggncgac ccacgcgtcc gatcaatgat 60

gaagcaaatc gaagagaagc atcatgacac tgcagcatca gtgttctgtt gtctgtacag 120

aaaggctcca cctccacggt ctctgtttct gtcacagaaa ggaatgtttg gcgttgtagc 180

gcttctaggt tcagttgcct ccacgtcgct aagcagggtt ttgtctgaat atttggggaa 240

agacacaatg ctttctttgg tgtgcaaatc atcacagttt ggacccaaaa gcgatgagta 300

tcgcaagttt caatctgaag cagctagcct cggacgatct atcaccaatc ggtttcttgt 360

tatttgtctt gatgcaacta gaccttggga ggaacggact tgtgaggaat gatcctcaga 420

agagattagc catggataac ccttacctgc cgaatggaga tc 462

<210> 2012
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-E5

<400> 2012

agatgaagtt ttctcatttc acactcaaat tcaattccct ttgttcgtga ggttgaattt 60

cggttgcaaa catttgggtt tgttgtaaat taaggttccg tttgtaaaag agattccttt 120

ttatttgggg aaatcgagga gttcgtgtac ggagctgagt ttttgccttt ttgatggttg 180

cagataaggt ctaaaatctt gaaggattca aaaatttccg atgaatacac gttattccaa 240

tcagccggag ttatcttcta gtaatatcac gatcactatt tcatcgtctg ctttgttaag 300

ctcctcaccg cgaggcgata acagtcatgt tgctgctgct aatggtcaag agaggtctcc 360

atcttcgttt tatataaggc tggctatgaa ggtatctaga gctagat 407

<210> 2013
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-F1

<400> 2013

agtagncaaa aatcccgggc ngncccacgc gtcnngcact agagccggta aaattctttc 60

tctttctttg tttttctctt ttttcggcac atccatgatt tttcttccaa cggaatcaat 120

tctagttttc tagatctaaa tatttaaagc ttaaatctcc tcctcctttg gtttttgatg 180

ttttgctttt ttgtctccgc cattctcagc atcatatctg gttgtatctt tcttggtagg 240

tagaagcagt cttcaatcgg ttcttctctg cctcagatta agaaatttcg ccatcgtaaa 300

tctagatctt cttcctttct tcaagagacg ttctttgagt ctctattttt ttggatgcgt 360

ttcaccgcct ctgtgacttc tcgagagtat tataaagaag ggtcacacga cactttcatt 420

tgggttttaa cttgttaaaa agaaa 445

<210> 2014
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-F10

<400> 2014

gagcaaagag tttttgtgtg gctagtggca tcaatggagc tctcgatctc acaatcaccg 60

cgtgttcggt tctcgtctct ggcgcctcgt ttcttagcag cttctcatca tcatcgtcct 120

tctgtgcatt tagctgggaa gtttataagc ctcgctcgag atgttcgctt cacgagctta 180

tcaacttcaa gaatgcggtc caaatttgtt tcaaccaatt atagaaaaat ctcaatccgg 240

gcatgttctc aggttggtgc tgctgagtct gatgatccag tgctggatag aattgcccgg 300

ttccaaaatg cttgctggag atttcttaga ccccatacaa tccgcggaac agctttagga 360

ttcactgcct tggtgacaaa aagctttga 389

<210> 2015
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-F12

<400> 2015

aattcactgc aaagtaaggg aaagcttggc ttggaaatgg gagttgaaca agccatcgat 60

tcgggctaat gtgtatagtt tgattcgtct ggggagcttt tgagagatag caatttagtt 120

ttccgcttac gaatgatctt tttctgatgc gtcattttga ttaagtgtgt acttctgcaa 180

tggaggcttc tctagctgtt atacagaggc ctcaagctgg agcttcgaat acggtttata 240

agagtggccc tctcttcata tcatcaaaag gactaggctg gacatcctgg aagaagcgtt 300

ggtttatcct tacccgaact tctttggtct ttttcaaaaa tgatccaagt gcattaccac 360

aaaagggaag tgaaagtaaa tttgaccctg 390

<210> 2016
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-F2

<400> 2016

tccgccgcta ccggtcaaga ttcccggatt tttggcgtct ccangcacga tttaacgcat 60

cgaagctctc tgcacgcttc ctgaaagaga gagagaagag agagatcgca gatcgatttc 120

tcttaaatct ctcgtgaatc ccatttgcct tctctctgct agattctctc ttcttctctt 180

cacccatttc tcgctttctc ctttgttctc tcatctgggt tcttctcaaa gcctcttcct 240

ttttatgcca tggtgggtgc gtcttcctct tacgcatctc cgttatgtac ctggtttgtt 300

gctgcttgca tgtccgtctc tcacggtgga ggagatagcc gtcaggctgt tgctcttcaa 360

tctggtgggc ggagtcggcg aaggaggcag cttagcaaat gctctgtcgc ttctggatcc 420

gctagcattc angctctcgt cacttcttgt tt 452

<210> 2017
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-F3

<400> 2017

tacggtcaaa aattccnggg cngncccacg cgtccncaaa gatccgtctt tttctttact 60

tcatgtcgaa gcaaacgtac aaagtgtgtt tctgctttcg ccggaggttt cgttacactg 120

catcggaggc accgcgtgag atcaagacca ttttcgaaaa gtactcagag aatggagtta 180

tgaccgttga tcatctccac aggtttctga tcgatgttca gaaacaagat aaagccacca 240

gagaagatgc acagtcaatt atcaattctg catcttctct tcttcatcgt aatggtctcc 300

atcttgatgc tttcttcaag tacctctttg gtgataataa ccctcctctt gctctccata 360

aggtgcatca tgacatggat gctcctatat cgcattattt catattcact ggtcataatt 420

cttatctgac tggtaatcag ctgagcag 448

<210> 2018
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-F5

<400> 2018

tgatgtactc ctctgcaata ttcaagtcag aaaatgagga tcctagaact gcacagatga 60

gaaaaatatc tcttttaatt gaaaaggcga ggatagagaa gaaccatgag gtcttagaga 120

tgggatgcgg atggggaact tttgccatag aagttgtgaa aagaactgga tgcaaataca 180

ctggcattac tctttctatt gaacagctta aatatgcaaa agcaaaagtg aaagaagctg 240

gacttcaggg tcggattacg tttatgctct gcgattatcg ccaactatct gatgctcgca 300

aatatgacag aattatagct tgtgagatga tagaagcggt tggccacgaa gtttatggat 360

aagtttttca gttgttgtga agatgcgctt gcagaaaacg gcatttttg 409

<210> 2019
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-F6

<400> 2019

gggcggacgc gtgggcgatt cttcctccgc cgctaccgaa ttaacgattc cggcttctac 60

tgaagtaaga tcgatcaata acaaccgtag atccgtgatt agacgccgga gatccggtcg 120

tcgtccgtcc tttaatccgg tcatcgtact tcaaggaggc gccggcgaga gagaagaggg 180

agaagaagga gatgcggcta gagatcgacg cgcttttgag ttttattacg atgacggatc 240

cggatcgggt cttagaccgc ttccggattc tgtatctgag atcttgatgg gatctggatt 300

cgagcggtta cttgaacaag ctaagccaaa tcgaagcgtc ggctactgga attggtagat 360

ctggaaaccc tccggcgtct aaatcggcga ttgagtct 398

<210> 2020
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-F8

<400> 2020

ttttatgtca aaaaaaatgt tttccttttc ccttaacaaa aaatctacaa agtctgaaac 60

tctcagcaat cagataaaaa gattacaaga agttctttta attaaccttt tgcaatttgt 120

cttgtgtttc tcacaacaca aaaacttgta aaagtgttaa aaaatcaaga tctgaaaaat 180

cttatcaccg cttctaggtt tttcagtttt ttttcttcct tttcctgatc taaattaact 240

tatatttctt agggtttcac ttcttgaaac atttaatcag aattaattaa cctctctagg 300

gctttcatgg cgaatccatg gtggacagga caagtgaacc tatccggcct cgaaacgacg 360

ccgcctgggt tcctctcagt gaaaganacc aagatctcca c 401

<210> 2021
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-F9

<400> 2021

cgagccaaac tcggcactcc tccacagcta atgttcatgg tcctagacac aagtaacgac 60

gccgtttggc tcccttgctc cggctgctcc ggttgttcca acgcctcaac ttctttcaat 120

acaaactcct catccactta ctcaaccgtc tcttgctcca ccgcacaatg cacccaagca 180

cgtggcctca cgtgcccatc ctcctcacca caaccgtccg tctgctcctt caaccaatcc 240

tacggcggag attcatcctt ctctgccagt ctcgtccaag acacgctaac gttagccccc 300

gacgtcatcc caaatttctc cttcggctgc atcaactccg cctcaggcaa ttctctacca 360

ccgcaaggga ctaatgggcc tangacgccg ggc 393

<210> 2022
<211> 407
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-D6

<400> 2022

ccatcgccat tgccatggct aagctctcnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnggatgg cttagaatcc tacatcgtcc 120

atgtgcagag atctcataag ccttccctct tctcctccca caacaactgg cacgtctctc 180

tccttcgctc tctcccttct tctccccaac cagcaacgct gctctactct tattcacgcg 240

ccgttcatgg cttctccgct cgtctctccc ctatccaaac cgccgccctc cgccgtcatc 300

cttcagtcat ctccgttata cctgatcaag cgcgtgagat ccacacaact cacacgcctg 360

ccttcctcgg tttctcccaa aactctggac tctgggagca actcaaa 407

<210> 2023
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-A7

<400> 2023

ggncgaccca cgcgtccgtt cggcaacttc caaaaagcca cacctgaaga aagaaacctt 60

agatttggtg tcagggaaca tggtatggga gctatctgca acggcattgc ccttcacagc 120

cccggtttta tcccttactg cgcaactttc tttgtgttta ctgactatat gagagctgca 180

atgagaatct cggctttgtc tgaagctggt gttatatacg ttatgaccca tgactccatt 240

ggtcttggag aagatggacc aacccaccaa cccatcgaac acttatccag tttccgtgcc 300

atgcccaata ttatgatgtt ccgtccagct gatgggaacg aaacagccgg tgcatacaaa 360

atcgctgtca caaaacgtaa gacaccttct gtcttagcct tatctaagac aaaagctgcc 420

tcaacttcca g 431

<210> 2024
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-B1

<400> 2024

ccacacaccc actcatggcg tctcgaagag ttttatcatc tcttctccgt tcatcttccg 60

gtagatctgc cgccaaatta gtcaaccgaa accccaggct tccttctcct tcacccgcgc 120

gtcacgccgc tccatgtagc tacctcctcg gccgcgtcgc cgagtatgcg acctcttcac 180

cggcaagctc tgctgcgcca tcctctgctc ctgctaagga tgaggggaaa aagacctatg 240

attacggtgg caaaggtgcg atcgggcgtg tttgtcaggt catcggtgcc attgtcgatg 300

tgagattcga ggatcaggaa ggattgcctc cgatcatgac atctcttgag gttcaggatc 360

atcccacaag gctggtgctt gaggtgtctc atcatttggg tcaaaatgtc gt 412

<210> 2025
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-B10

<400> 2025

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ttttggccac cggaaaattt ctctgttata aaaacgaaag tctgtgtcct cttaaacatt 120

tttgggatca tcaatcggtt tttggtcaac catgaatatg aatcaagttg cagagtatgt 180

ggaaactgat ccaactggtc gctatggacg ttttgcagaa attcttggaa ggggagcgat 240

gaagacagtg tacaaagcaa tcgacgagaa gctgggaata gaagtagcat ggagccaggt 300

gaagcttaag gaggttctgc gttcctctgt tgatctacag aggctttact ccgaagttca 360

tctcctcaac actcctcaan caacaaatc 389

<210> 2026
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-B4

<400> 2026

aagtatcagg gacaggataa gcttccagtt acagtttgga tgatggctca ggcctcccaa 60

ggtgatatat cagtaggctt gtactcgtgg gctcacaact tgttaccggt ggtcagtagc 120

aagagttgca atcctcagtc aagggatctc attcttcagt tggttgagag gatcttgtcc 180

aacccgaagg cccggaccat acttgtaaat ggggctgtta ggaagggaga gcgattgatt 240

ccacctcctt cgtttgagat cttggttcga cttacattct ctgcatcttc cgcaagagtg 300

aaggctacag agaggtttga ggcaatatat cccttgctga aggaggtgtc tcttgctggt 360

gctcctggga gtaaggcaat gaagcaagtc acacagcaaa tattcact 408

<210> 2027
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-B5

<400> 2027

aaatatctct ttcctgttag agacaatgga cggattgatc agaggtttgg tcgacgtggc 60

tatcggagga aaccaacgcc gcggcggaga cgatggtggt gatgatgaag gcaactcgag 120

ggacgagaga tccagatcta cttgggctaa tgtggtttcc ggtgaggaag aggatcagaa 180

tcgcgcggga ggatcgtcgc acggccgtcg ccagaattca gaggagaatc aatgggagaa 240

gaagggcgaa aggcttccca caaggcattc acaatcacat gaggaggacc aggaagagaa 300

tacatatgcg gctaaagtga gcgagaaaca agacttctcg gagagccagc aagaggaaaa 360

tgatggttgg gaaactgtgg gcaaaaagaa acctgcaagg caatcacata a 411

<210> 2028
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-B7

<400> 2028

tttcttctat ccaaaacacc atttttgaga tcagagcttc tagcagcgta aaaaatgcag 60

acgaggtata tggagaggac taatagtatg agagagaaga gaaaattgga ggaagatgat 120

aatcagcagc agcagcaaca gcctgagcgt aaaaggccag ctcttgcaag tgtaattgtg 180

gaagccttga agatggatag tttacagagg ctttgttctt ctttggaacc gattcttcgc 240

cgagtggtaa gtgaagaggt ggagcgggca ttggcaaagc ttggccctgc aagacttagt 300

gaaaggtcgt ctccaaaacg aattgaaggt atcggtggaa ggaatttgca gctacaattc 360

aggtctagat tgtctgttcc tttgtttact ggagggaaga tagaagggg 409

<210> 2029
<211> 200
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-C10

<400> 2029

tgatgacgca tcgaggaaga agatggattt gacagcagag gagttgaagg aagagaagga 60

cctcgcttac tcatgcctct cttaaaccgg tcttttctca gctggtttaa tcagtgaaag 120

ctttgtttcg aataaagaag ttttgttnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnngg 200

<210> 2030
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-C11

<400> 2030

atttccattt ttctctcttc cataaaaccc aaaagaaact aggaagagga gtaaataata 60

tttgttttaa agaaatgatt ctccacaaaa tggcgttctt ggccgttatt ctcttcttct 120

tgataagcag cagcagcgtt tgcgttcata gccgtgaaac gtttgcttgc gatacaaagg 180

acgcagcaac agctacactg agattctgcc agctttcagt tcctataccg gagagagtca 240

gagatttgat cggacggttg acattggccg agaaagtgag cttgttaggg aacactgcgg 300

cggcgatacc acgtctagga atcaaagggt acgagtggtg gtcggaggct ttacacggcg 360

tttcaaatgt gggacccggt actaagttcg g 391

<210> 2031
<211> 462
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-C2

<400> 2031

tttgccgncg cctaccggtc caagaattcc ggggtcgacc cacgcgtccn ctcatcttct 60

cttccattca aatctcacat tccctcttca caacaacagc ttcgtattcg ctcatcttct 120

tcgctttctg atcttggaaa tcgcaggcat tgttcgtcta ctcgaggatt tcaattttgg 180

tcatnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn accggcggtt cgtatttccg acgggaatct aatcatcaaa 300

aaccggacga ttctaaccgg tgtaccagat aatgtcatca cgacgtcagc atcggaagct 360

gaccggtaga aggagtcttc gtcggagctg tatttaacaa ggaagagagt aaacacatcg 420

taccgatcgg tacgcttcgc aattcccggt ttatgtcttg tt 462

<210> 2032
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-C4

<400> 2032

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aaataggctc tgctctgcgc cttttctaca agaaattcac caaaaaagct tgaatattta 120

tcggaatcaa agcttgggtt tttaatcctg gtaaagccat gtcacatatg gtgtttcaga 180

gcgttgtcgc tcccaaaccc ttatctcctc tcaaaccctg tttacctatc cctcgtccac 240

tcgttactct gccttgtaag ctccgtcgtg gcttcgttag agcttcttcg tcctcgtttc 300

ttgtcganga ntcaagtttc aggactccga gcgttgctta cagttacctt ctggagttga 360

ggttaggcnc atcttcctct ggctctttct ctgcaagtac ncagatgtgt cctgtgatga 420

aaggcaaatt tgggttcggt aganccggt 449

<210> 2033
<211> 409
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-C7

<400> 2033

gcggtgagga gagcttcgtt gtcttcccca ttgcaattag ggttttcaaa acgggtaatc 60

gaattcggtg gtgctcggct ttgaaattga ggatgagatc ctttccactt ccttctacct 120

gctgacaatg ggcaactgcg gtactagaga cgaggctgcc gtcttcactc ctcaagctca 180

agcccaacag ctccagaaga agcactcccg atccgtctca gatctgagcg atccatccac 240

tcctcgcttc cgagacgact ctcgcactcc tatttcgtat gcccaagtca tccctttac 300

tttgtttgag cttgagacca tcaccaagag cttccgccca gattatatac tcggagaagg 360

tggtttcggt accgtctaca aggggttaca ttgatgacaa tctccgcgt 409

<210> 2034
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-C8

<400> 2034

gatgattact atcaccaagc ctgtcttgct aagaaatctg caggtgcaaa actgaagcat 60

catttctgtc caaatcattt gagggacctt caacagcgtg cacggtcgaa caacgagccc 120

catgcttttc ttcaggttga ggctcttggt agggttcctt tctcttcaat ccgcaggcct 180

cgtcctctgc ttgaagtgga ccctccaaat tcagctaaat ttggtaatgc agagcataaa 240

cctacggata agccccttga tcaagagccg atgcttgcag ctagagtgta cattgaggat 300

ggtctttgtc tcctccttga agttgatgat atagatcgtt tcttggagtt taaccaactc 360

caggacggag gacaccagtt gaaacaaaga cgacaagcat tgttgc 406

<210> 2035
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-C9

<400> 2035

ggattgattt tgctttggat ctcacatctg agatcagatt aatctctctg tgaagtcgaa 60

gaacgaaacc ctagttccca tggatctctc ttcacgcttc tcatcgatcc ttatccttct 120

cttgatctcc atctccatag cttcggctga gattcgtaaa tcagagatcc gatccgatga 180

tcgtccaatc atccctttag acgaattcgg tttcactcac agcggtcgtc ttgagcttga 240

cgcttccaag atctggcttt ccaacagcaa tcccgatctc gatctctcca aagtgggctt 300

ctttctctgc actagagacg cttgggttca tgtgatccaa cagcttgaag aagaagagat 360

cacgtgcgct ctacaatcag atctcgttaa g 391

<210> 2036
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-D1

<400> 2036

tcccgggncg acccacgcgt ccnaaaaaac ctctcttctc tctcctcact gtaacaaatt 60

tttagatcta gatctgcttt tctcggtgcc tttgatcttc atctctttgg ctttgctttg 120

aaatttcagg ggtgaacaag atgccttctc cgttggcagt ggtgtggttt ttctctcctt 180

cgatgtagtt gtggatccga tgtgttggaa gtagagagtt gctacgattc ccttcggttg 240

tggacgccgg ttggtgtagc gatttcttct cgtggctcag ccgtcgtgtc ggcctctgca 300

actacggcgg aagtcgatcg agagaaggtg ggtaagtgcc aattcgccat ggaggttaac 360

ggtggatctt cctaaatttg ttggctgtcg cggattcagt gtgtttgggt gtttcgcttg 420

agccttgggc ctcaa 435

<210> 2037
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-A3

<400> 2037

aaataaataa tccccaaatt gaatttcaaa tttcgaagct tcaagaaacc ctaatttttc 60

tcaatctaag ctgaggtttg ggatctcgta cattgcacgc gatgggagat ttcaatctcg 120

ctctcgtgat tgttgcgatc gtagtttgcg tcattgtttt catctccagt atctacctcc 180

tcgtcaacta tcagcatcca gatgatgcaa accaggctta tttccccaaa ttcgttgttg 240

tttttggttt atccattgct atgatctcta ttctcatgtt accggcggat gtggctaacc 300

ggcatgcttg tcgacattcg atttacaacg gcgcttgtaa tctcacctta cctatgaagg 360

atctttggct tgccgtttac attgttgacg ctgtgcttgt cttcntcatc 410

<210> 2038
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-065-Q1-E1-D4

<400> 2038

aacgaaagcc aaattcgaat cggtccacaa aataccaaac gtcgtcggat caatctacac 60

cacacatatt ccgatcatcg ctccgaaagt ccacgtggcg gcgtatttta acaagagaca 120

cacggagagg aatcagaaga cgtcgtactc gataacagta caaggagtgg tcaacgccga 180

cgggatcttc accgacgttt gtatcggaaa cccaggatct ctcaccgacg atcagatcct 240

ggagaaatct tcgctttcac ggcaaagagc ggcgcgtggg atgttacgtg acagctggat 300

agttggaaac tctgggtttc cgttgactga ttatcttctt gtaccgtaca cgaagacaga 360

atctgacgtg gacgcagcac gcgtttaacg agagtatcgg agagattcaa 410

<210> 2039
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-F5

<400> 2039

acgcgtccgc aacttctttg tcttcttcta gatctttggt tacagatctt ccatcaccat 60

gtctgaaacc caacaacaat tcccattcaa acagaagagc aaaagtgtgt gcttcacttg 120

cagagaaggg tgaatattat tcaaacagac caccaactcc attacttgac actattaact 180

acccaatcca catgaaaaat ctttctgtca aggaactgaa acaactttct gatgagctga 240

gatcagacgt gatctttaat gtgtcgaaaa ccggtggaca tttggggtca agtcctggtg 300

ttgtggagct tactggggct cttcattaca ttttcaatac tccacaagac aaagattcct 360

ttgggatgtt gggcatcagt cntaacccca taaagaatcc taacggggaa gaa 413

<210> 2040
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-F7

<400> 2040

gaattangat tttgatttta ttttttactc tttgtttgtt ttaatgctaa tgggttttta 60

aaagggttat cgaaaaaatg agtgagtttg tgttgaggtt gtctctgtaa agtgttaatg 120

gtggtgattt tcggaagtta gggttttctc ggatctgaag agatcaaatc aagattcgaa 180

atttagcatt gttgtttgaa atggagtcga gttatgtggt gtttatctta ctttcactga 240

tcttacttcc gaatcattca ctgtggcttg cttctgctaa tttggaaggt gatgctttgc 300

atactttgag ggttactcca agttgatcca aacaatgtct tgcagagctg ggatnctacg 360

ctagtgaaac cttgcacaag ggtccangtc aacttgcaan aacaaga 407

<210> 2041
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-G1

<400> 2041

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attttgacct tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnntt cggatttgtt ttttcaataa attgactaat tgagtactcg 180

tttaaaggaa gtgaagagcg gttttttggt agtggtggtc gagaaaagag agagtttgtc 240

tctgtgactc agagtgaaat caatagagcg ggaaaagatt gttgcttttt tttgccatgg 300

gagttgatga gctgtctcac ctcaaattct ctcttctgct agaatcatca gcctgcaatg 360

atttgtccng ttttaaatcn ccaagttnga aagaaaaaag gccctgaaaa ncattggat 419

<210> 2042
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-G11

<400> 2042

gaagaaagat agagaaaaaa aatgggaggc aaaggtgtga tgatggtggc gatactttgc 60

ctttgggcac tctctgcaac atctgaagca ntaacagagg ctgagccang tttgatgatg 120

aacttctaca aggacacgtg tccncaggcc gaanacatcg tcngtnaaca agtcaaactc 180

ctctacaaac gccacaagaa caccgctttc tcttggctcc gtaacatctt ccatgactgc 240

gccgttgagt catgtgatgc gtcgcttttg ctggattcna caagaagaga gctaggagag 300

aaagaacacg acangagctt cggacttaag aaactttaag tacatcnagg anatnaagga 360

aactctcgan aaggantgtc ctgatgttgt ct 392

<210> 2043
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-G12

<400> 2043

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gaagtattta gataagactg atgctgaagg gaatgagagg cctgagtctn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnggctcct cggatgagta atggccatag 300

tgaaagggta gatggtgttg ttgatgttga tgaggatgaa gagagtgatg ctgaagatga 360

tnagtcagag cangctactg gaattgaacn gggac 395

<210> 2044
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-G6

<400> 2044

caattaatct cagatttaga tcgagagaga ccaaattgag agcaagatct ttgcattgtt 60

catctcttgc tttgtaatgc cgttgttctt catcgtaacc gactcggtgg acgcgatnaa 120

ttgactcgtt ctcttttgga tccttgttga ctcggcgagc ttggcttang agacatggga 180

ggtgtgcctt caacgccgcg aaaaaccggt ggtgatgatg tttcggtggc cgagtacctc 240

attgccactt ttgttgggga gaaatcgttt cctttagcgt ctgatttctg gaacangcta 300

cttgagcttc cgttgagttc tcgctggcct agtgatcggg tncaagcaag cctgtgaacn 360

tttcggacan ngtaatnggn tacgctangc cccttgcaaa ggcnaatgg 409

<210> 2045
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-G7

<400> 2045

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tctgctgcct cacctgaacg cctctctgta tcttctacta tcgctggggg aaagcgcctt 120

ccctattcat cagatgtcaa tcaatcacca aatagaagga ttgtggatcc tgttggactc 180

gggaatgtag cttggaagga gagagttgat ggctggaaaa tgaagcaaga gaagaatact 240

ggtcctgtca gcacgcaggc tgcttctgaa agagtggagt agatattgat gccagcacag 300

atatcctang cagatgaggc tctgctgaat gacgaagcga ggcancctct gtcaagggaa 360

agttcaattc ccttcatcac ggattaatcc ttacagaatg ggttattatg c 411

<210> 2046
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-G8

<400> 2046

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atcgactttg cttcaccaat ggatggcgat ggacatggaa gtcacacagc agctattgca 120

gctgggaaca atggtattcc agtgaggatg cacngttatg agtttggaaa agcaagcggg 180

atggntcctc gtgcaaggat tgctgtttac aaagctctct accgactttt tggangcttt 240

gtagctgatg tggtggctgc cattgatcag gctgttcatg atggagtana tattttgagt 300

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atttgatgcn acacttcntg ggggctgtta aaaactggt 399

<210> 2047
<211> 392
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-G9

<400> 2047

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caaatttctc ccttcagatt tattcatctg ttgagtaaaa ccacaagggt ttctctctaa 120

tgttgcccag attagctcga gtcgtcactc aaacctcaaa gcttcgatct ttgaccacta 180

atggatcgat gaaaaatctc tccttttttct cccgatatgg gtacgcgact gttgcgccgg 240

cggcagctga tcctccgtcg cagaaggatt tccccagtaa atctccgata aacttggata 300

agatgttttg gtcaaagcca tgttcattgg ctctgcctaa agactctcct ctcagaattg 360

atgaaccaag actatgtang gattcgtcgt tt 392

<210> 2048
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-H12

<400> 2048

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gttcttcaaa accggttaat ttcaggtggt tcatcgcgga agatgacgcc tatctccagg 120

accaactccg tcgaatcatt atccagctac ggcgagagat tcgccggcgg gaagatttcg 180

atcgaggtta aggctaatgt agggatgcgg agggtgttat cggaaagtga tgtgattaga 240

tctgagagaa tgttgaaaag agttggatct aagccttcgc cggcgagaat cccggaggat 300

gatgaagcgg gggaggaaga aattaggttt gcagatggtt gggggtctat gatctccggt 360

ggtttacctg tggaagagaa atgtttcacn gggtggc 397

<210> 2049
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-H2

<400> 2049

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gtgatgtgtg ccatggcacc actctacttc gccatgttcg tggcttatgg atcggtaaag 120

tggtgcaaga tcttcacgcc ggngcaatgt tccggaatca accgttttgt ctccgttttc 180

gccgtcccag tcctctcttt ccacttcatc tcacaanaca acccttacaa aatggacaca 240

atgttcatcc tcgccgacac tttgtccaaa atcttcgtct tcgttttgct ctctctatgg 300

gccgttttct tcaaagccgg tggtctcgat tggctcatca ctctattctc aatcgctact 360

ctccctaaca ctcncgttat gggcatacct ttgcntcaag gca 403

<210> 2050
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-H3

<400> 2050

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aagaanangg aaangaaaaa gatgataacg ggaaacgaat tctacacggt gatgtgtgcc 120

atggcaccan tctacttcgc catgttcgtg gcttanggat cggtaaagtg gtgcaagatc 180

ttcacgccgg cgcaatgttc cggaatcaac cgttttgtct ccgttttcgc cgtcccagtc 240

ctctctttcc acttcatctc acaaaacaac ccttacaaaa tggacacaat gttcatcctc 300

nccgacactt tgtccaaaat cttcgtcttc gttttgctct ctctatgggc cgttttcttc 360

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ctcnccgtta tgggcataac tttgcntcaa ggccaatgtt atg 463

<210> 2051
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-H4

<400> 2051

acctgccgcg gccagtaaag gtcaangggn cnanccacgc gtccgcggac gcgtgggttc 60

gcgacaatcc cagcggcttt gcagctcgtg ctagaaggaa gatatattgt tgcagtgatt 120

ttatctgtga ctcatcttgt gctaatggag tatggtgctt cagagattca agatgacatt 180

cctgggtcca atgcttacct tactggacta agtattattg gtggagtcac tctgtttcct 240

tctgctctag agggagcgat aatggggccg ttgataacga cggtggtgat tgctttgaag 300

gatctgtatg cagagtttgt tctgaatgag ccaaagaaga tcaattaagt tgttattggt 360

ttctttaata ggagcttcaa gtgcttttgc cgtggctgct ttgtccttgg nagaagattc 420

atgtagatta gtagagagac caaagtgttg aattgaaatg tg 462

<210> 2052
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-H9

<400> 2052

tcctccgcat gtcaacatat tttattgtct aggcggaatt acccttactt gttttttagt 60

acaagtagct acgggatttg ctatgacttt ttattaccgt ccaaccgtta ctgaagcttt 120

tgcttctgtt caatatataa tgactgaagc taactttggt tggttaatcc gatcagttca 180

tcgatggtcg gcaagtatga tggtcctaat gatgatcctg cacgtatttc gtgtatacct 240

caccggtggt tttaaaaaac ctcgcgaatt aacttgggtt actggtgtgg ttctgggtgt 300

attgaccgca tcttttggtg taacaggtta ttctttaccc tgggatcaaa attggtnatn 360

gggcgggcca aaaattgtna c 381

<210> 2053
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-065-Q1-E1-A10

<400> 2053

acgcgtccga taacactcac acacacactt tctcttctct tattttctca gttcttttaa 60

ctcttttctc tacatatatt caaatggcca ccatcgaggt tgaacaagtg actccagtag 120

cagctgagaa catcgaggtg ccaccaccaa aggctgtgga gtcggaggaa gtcaccancg 180

tctccgagtc tcttccaact ccggtaacaa gaatctcaag cgcctgtcga agtaacaact 240

aaagatttgg ncntggnaaa gacaagagaa accaatcgaa gaaacanagg aaactcaagt 300

tnaaactccc gnggttntgg ggatttngaa agatnnaaga anctcccgnt gaaantcccc 360

gtggngtttt tnaggatgat gaacacnaca gttg 394

<210> 2054
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-064-Q1-E1-F2

<400> 2054

atttcggacg aggatgattt ggaaacaata gcaatcatgt ttgaggtttt cagactatat 60

ggacacaaga tgccttgcga tgtgttcgag agattcaaaa gcgaagatgg gaagtttaag 120

gaaagtttag ttggggatgt tagagggctg ctacagctgt acgaagccgc gcatctagga 180

gcaccatctg aagatataat ggatgaagcc ttaagttttg cgcggtatca cttggaaccg 240

ttggcangca ccgaaacaag ctctaatctt tttaagcatg tagaaaacgt tttgtataag 300

agctcgatat catagcatag nagatactag tagcacgaca gtacatctct ttctaagatc 360

aagaagaaga ccaagatgag acgctcccta aggtttcaaa ngctca 406

<210> 2055
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-C4

<400> 2055

ntgttacttt gccggcccgg tccgaaanaa ccggggtcaa cccacgccgt ccgtaaattt 60

cganatctca ctctctccca ttttcnactt tangaaatgg cgaacaacgc agattcagct 120

ccgacganag aaaccaanga acaagtnana aangcgttng aagcanaaga atggagctcc 180

gtggagaacg ccaccaatcc gcctgtctcc cgtcaanggg gaaatcagcc gaaagtcttt 240

ccgagcaagg atctgatgng agatgcanga caatgttgga gaaagatgaa gatcgagaaa 300

ggataanacg gnggagttac ttaaggagaa agatgagatc tgaganagaa ggaggaggaa 360

gctacaggac cagaggacgc tgangcaagg anaagctcaa aggtggagct gaagnaagct 420

tcangaagaa tgaagggaat tcanaaccta acaatgactt tttgccttgg cgggtcaatc 480

canctctcaa aacagggnct gaggccaaga aaaaggg 517

<210> 2056
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-063-Q1-E1-C6

<400> 2056

aagagcagtg aaagtgtaac tcgaaagaag cttaaaactg atgatgttgt tggcatgaat 60

gtgtctcaaa agacaacgtt gatcgtttgt ccaccttctg tgatttcagc atggataaca 120

cagttagagg agcatactgt accgggaatc ttgaaggtgt atatgtatca tggtggcgaa 180

aggacagacg atgttaatga gcttatgaag tatgacatag tgttgactac ttacggcact 240

ttagctgttg aggaatcgtg ggaagattct cctgtaaaga aaatggagtg gctgagaata 300

attcttgatg aggcacacac cattaagaat gcaaatgctc aacagagccg agtagtttgt 360

aagttgaagg cttcccgcag atgggctgtc acaggaactc ctattcaaga atgg 414

<210> 2057
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-C7

<400> 2057

aagccaaaca aagttttata gagaccttcc atttctccct ctcgtgacaa acgcaatttn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn tttgagatta ctttgtatcg 120

atttagctat tcgagaaact cttgccgttt gaaagtttta attgttaaag atgtcgagtt 180

ctatggaatg ttctgagttc gtcggtagcc ggagatttan tgggaagaag cctagcttct 240

cacagacgtg taagtcgatt gagtcagtat ctaaangaga acggtagctt tggagatctg 300

agcttaggaa tggcatgcaa acctgatgtc aanggaactt taggcaactc aacgtcagcc 360

gacaacaccn aggagtttat tcccc 385

<210> 2058
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-063-Q1-E1-C8

<400> 2058

tggaggctat gttattcatc ggaataaatg cagctataag tgtccgtgta tccaatgagc 60

ttggcctagg ccgtccacga gcagctaagt actctgtcta tgtcacggtc ttccagtctc 120

tcctcattgg tcttgtcttt atggtggcta tcatcatagc cagagaccat tttgctatca 180

tcttcacaag cagtaaagta cttcagcgtg cagtgtctaa gctagcttat cttcttggta 240

taaccatggt tctcaacagt gtgcagccgg ttgtttctgg tgtggctgtt ggaggcggtt 300

ggcaaggctt agtggcctat atcaacttgg gctgttacta catttttggc cttccctttg 360

gatatcttct tggttacatt gcaaactttg gagtgatggt tagagaattt a 411

<210> 2059
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-C9

<400> 2059

cagcttcacc tggtgtttca attanaggga gagtaagaaa natggcaaag tggaaaccag 60

atagtgataa tgaaagtgat ttggagtctg aagctgactc tgctgacgat tctaatgatt 120

ctgangatga gttccatgat atgtcagata tgcagtgggg aagatgaaag gaagaagttg 180

ctccattgtt ctgaatgtga caagcttttt catccggact gtgtggttcc tccagttata 240

gacttaccat ctgaagcgtg gatttgcttt tcttgtaagg aaaagacaga ggagtacatt 300

caagcaagac gtctttacat tgccgaattg cagaanangt atgaagcanc gcttgaacga 360

anatcanaga tcatagagat catccgttct ctgaatcgtc caaacaatcc c 411

<210> 2060
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-D1

<400> 2060

acgcgtgggt tttaattttc ctctctctta cacacacaca tgataaaaag tgtttagaga 60

cagctcttct cttcttgttc tcagtttgag agaaacaaaa ccttccaata caaccagaga 120

gtcgacgaag aagaaagaaa ccatgtccca annnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnaaaccca tttccgccac tacanttatt caaaaattca aagaagcccc 240

acagttttac aattctgcag gattgccccc taatcgatga ctccgagtcc gacgatgacg 300

tggtcgccaa ancaatcttc tgctcacgtc gaagctgtcc acgtgggcat gacactcgac 360

gncgcctana ttcgtggctc antcgccggc tggttctcnc cgtcctccca agaat 415

<210> 2061

<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-D3

<400> 2061

caacccgggt cganccacgc gtccgcttaa tccatttttt caaaccactt gcaaaattcg 60

aatcagatct tctcttcaat cgaaaaaaaa gaaaggattt gctctagatt gttgaatcga 120

agatgtcgac aagggaagag aatgtttaca tggcgaaatt agccgaacaa gctgaacgtt 180

acgaanaaat ggttgaattc atggagaaag ttgcgaaaac tgttgatgtt gangaacttt 240

cagttgaaca gaggaatctt ctctctgttg cntacaagaa cgtgattgga gcgaagaaga 300

gcttcgtggg agaatcattt cttcgattga gcacaataga agagagcanc gggaaccgaa 360

gatcatgttg ccattatcan aggggttaca ngaggaaagg attgaatccg agcttatcaa 420

aatcccgtga atggggattt tgaatngtcc ttgaaac 457

<210> 2062
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-D4

<400> 2062

tttaggtaaa tgatcacagc ttattacaga tggaagagaa gctgactcaa tttgtggttt 60

agatttgtca aagaggatcg tgtggaatct gaaagttttc aattttcact aaaaatagga 120

ttagagttaa aaaggaggaa gaagaaatgg ggaaacacaa atctttcaga agcaaagcag 180

tgcactttgt caccgatnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnggatg aggaagatga gtctaagaga aatcagctag 300

agtctacaac tgcagagcag cctaaggatt tggttgacga accaagacac ttcttctttc 360

tctgcattcc ttggttcact gttatcttca gattccaang 400

<210> 2063
<211> 428
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-D5

<400> 2063

tgcatcgatc tctattatca gcatcgtgtc gatactcgtg tccctatcga aatcactatg 60

ggagaactga agaagctggt tgaagagggt aaaataaagt acattggttt gtctgaagcc 120

tctgcctcaa ctatcagaag agcacatgct gttcacccaa ttactgccgt gcagatagaa 180

tggtccttgt ggacgagaga tgtggaagaa gaaatcattc cgacctgcag ggaacttggg 240

attgggattg ttgcttacag tcctctagga cgaagtttct tcgcatctgg acccaagctt 300

gtttgagaan ctanaanagg gatgacttca gaaaggctct accaaagatt tccangaggg 360

aaaaccttag accacaaaca agantgtttt atgaaaaaat tttgttgcaa attatcggag 420

aaagaaaa 428

<210> 2064
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-D6

<400> 2064

ttagttcgnc cggccggtac cgntccaaga attcccgggc ntcttcntcn aaagtttatt 60

ttcttaaact tattacaaaa aacatgatct tcaaaagttg atttaatctc tttttatcca 120

tcttcttctt catttcncaa tancaaactt ttctttttt gtaagcttaa cataaaccct 180

aatattttcn tgatttttt cangaaaata aaaacataaa gatgcttgaa gttagatcaa 240

tggatatgac tccaaaatca ccagaacccg aatccganac tccgacccgg atccaaccag 300

ctaaaccaat ctctttcagt aacggaatca tcatcacgcc accaccacna ccaccacaac 360

aacancaaag tcacttacag agaatgtctc aagaancacg cggnggcgat tggtggtcac 420

gcgcttgacg gttgcggcga anttatgccg tctccttcgt caacgacttc nga 473

<210> 2065
<211> 410
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-D9

<400> 2065

acttcaaaca cttgagaaaa aagcttttga tttcacatct taatctaaca agtcaaacac 60

ttttcaaacc acaaaattcg tcaaagctct gaaacaaata aacatttttt aatttctccc 120

tttttaatgg aaatctcttc tttcccattt ccatacctac aagacgacga gtgttcccat 180

ttccttggtc tatttcaaga catggactct tctccttcta ctttcggatt agaaggtttt 240

aatagcaacg acaataatac taatcaaaag aaacgcccaa gaaaagacga cgaaggcggt 300

ggtggtggcg gcggaggaac agaagttcta ggagctgtta atggtaataa taaggctgct 360

tttggagata tactcgcgac gcttctgttg ttagacgang gaagccaaac 410

<210> 2066
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-E1

<400> 2066

ctctgcacat ttctgggttc ttctcttctt atgctctgtt tcttttaaga cacagaagaa 60

acagtacaga gttgagattt tcttaaacaa aagtgaaaag agaagaaaca agtgacagct 120

caaacggaca aaaaccactc ttgggtcttt cttgcttctg attctttctc ttctctaata 180

gaagaaaaca tctagaagct aaaaaaatgt cggaaggagt agaagcgata gtagcaaatg 240

acaacggaac agatcaggta aacggaaacc gtaccgggaa agataacgaa gaacacgacg 300

gntccaccgg ttctaaccta agcaatttcc tatggnacgg tggctctgtc tgggaagctt 360

ggggtcagct gcgcatctaa ccaagtgggn tcaaagttgt t 401

<210> 2067
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-E10

<400> 2067

nctctgattt ttttcaattc cgatggaggc gggagagcgg cgcaatggcg attcgatgag 60

tcacaatcac cgcgcaccga agaagccacg tctcgctggg ttattaaccg agtcagatat 120

cgactctgag ttcgctcacc accagaccgg tgttgccaga atcaacaacg gtagcttcgg 180

gtgctgtcct ggctccgttc tcgaggcgca acgcgagtgg cagcttcgtt atctccgtca 240

gcctgatgag ttctacttca acggtctccg tcgtggactt ctcgcttctc gaactgtgat 300

cagtgaccta atcaacgccg atgatgttga tgaggtctct ctcgttgata acgccaccac 360

tgctgctgct antgttcttc agaaagttgg aaaggtgttt ctcgggaagg g 411

<210> 2068
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-E2

<400> 2068

ttgcnggccc ggtccagaat acccgggtcg anccacgcgt ccgtgaangg cttcttttc 60

ctaatctcat tgttgattgg gttctcaagc tcttacagga aaaggagatc tttgaaattt 120

tgcagctgct actccccatt gtgtatggtg ttttagagag tattgttctc tctcagacat 180

atgtncagag tcttgtagct attgctgtcc gtttcattca ggaacctgct cctggtggat 240

ctgatcttgt tgataactct cgaagagctt atactcgatc tgctctaatt ganatggttc 300

gctacttggt acttgctgca cccgacacat ttgttgcttc agatttcttt cctcttcctc 360

cttccngtaa gcagcatgtg gacctaagga tgtgagctat acgtcaaagg cttatganaa 420

tctgngaana agctnagaaa ntaactctgn cggaagattt t 461

<210> 2069
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-C12

<400> 2069

gttctctcaa tttcattctt aaaccctagt tcttcgattt tttccgatct acgacaatgg 60

cggacgctga aacctttgct ttccaagctg agatcaacca gttgctttcc ctcatcatca 120

ataccttta ctctaacaag gagatcttcc tccgtgaact catcagtaac tcttctgatg 180

ctttggacaa gattagattc gagtccttga cggacaagag caagctcgat ggtcagcctg 240

agctcttcat tcacatcatt cccgacaaga ctaacaacac cttgaccatt attgatagtg 300

gtattggcat gaccaaggct gatttggtca acaaccttgg aacaattgca agatctggaa 360

ccaangaatt catggaagca ctggctgcng gagct 395

<210> 2070
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-E3

<400> 2070

anaggcagcg tgctgcgcan agtttgatga agaaagctat tcaggagacg aggtataagg 60

agagtgtgcg tgctgcgatt tatcagaaga gagcagctgc agagagtaag cggatgggga 120

ttttggaagc ggaaaggaga agagcgaatg cgagattgac tccggtgttt ggtgctgcta 180

gttctgtgcg gagtcaaaag gaagctgaga gaaggaaaat gaacgaccgt ttagaagagc 240

ggcttcaaag ggcaaagaag ctgaaagcgc aatatatnag gcgaaggaga ggtattggat 300

agttgttcat cttcacgatn agaaacantg cgaaagaacc aagtgcatct tgttaagatg 360

ttagtaagat gcctgganng angatttgcg aaatgcaaga agtcctacnc tttggtcttg 420

g 421

<210> 2071
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-G12

<400> 2071

cgacaactcc ttctctctct taaaacaaat ttttttttttc tctctacaaa gctccgccgc 60

cgcctagggt taccggttcc ggtggctttt tcagcaccgg aaccggattt ctttgtttta 120

gtgtctctag tttcgatttc ttgtgggttt aatgtgatct gaatcctatt ttcttctaac 180

ggtttctttt ctaaattctc agatctaaat ctgtaaagtc taaatctttt cctcttccgg 240

ttttgttgct tgtttgtctc cttcgtctgc aagtttcaat tctggccgtt ccaactatgg 300

cagaggcagg ttttttttcta accttcaacg cctcagatgc agatctctct ccattgaaga 360

tctagatntc cttcctttcc tccttganaa cttggtct 398

<210> 2072
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-G4

<400> 2072

acgcgtccgg ggctttaggg tttataagac ccaaacaaaa aacattcatc agtctcaatt 60

caaaatcctc catcaatgga gaaatacgag aagctcgaaa aggtcggtga aggaacctat 120

ggaaaagtct acaaagcaat ggagaaaacc accggaaaac tcgtcgctct gaagaaaact 180

aggctcgaaa tggacgaaga aggtatacca ccaacggctc tccgtgagat ctctcttctc 240

caaatgcttt ctcaatcaat ctacatcgtt cgtctcctct gcgtcgaaca tgttattcaa 300

tcgaaagatt cgactgtttc tcactctccc aaatccaatc tctatctcgt ttttgagtat 360

ctcgacactg atctcaagaa atttatagat tcctcataag aaaaggggct cgaatcctan 420

accgcttgag ggttctcttg 440

<210> 2073
<211> 379
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-H10

<400> 2073

cgcgtccgcc cacgcgtccg cccacgcgtc cgcccacgcg tccgcggacg cgtgggtgcg 60

aatctgaagg atctttacga attccataat cttcagatcg aaaggtttct atcgattcgt 120

tggtcaagag gagattgtgc gtgtgattcg tgagcatggg ctgttcgttt tcaggattga 180

acgcacttta cgacgccgtc aacggtggag gtgacgtatg gatcaatgag aatcgattca 240

ggatcgtgag gcagctcggc gaaggaggtt tcgcattcgt ctttttggtc aaggaaattg 300

tcgccgacgc ttcctccgcc gcatccggtg gtggtctaac caaganagtc aaggatccgg 360

ctcanctctc cggctgacg 379

<210> 2074
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-H11

<400> 2074

aaaacctaat cttcatcttc atcttctccc gccgtcggcc gtaagaggtt tcgaagaagc 60

aaagtgagca acaatggcgg gaggcaagat caggaaggag aagcccaagg cttcgaatag 120

agcaccatcg aaccattacc aaggaggaat atcgttccac aaatcgaaag ggcaacatat 180

ccttaagaac cctctgcttg tggattcgat cgttcagaaa gctggtatca agagtaccga 240

tgtgattctc gagatcggtc ccggtactgg gaaacttgac caaagaagct tctagaagct 300

ggcaaagaag ttatcgccgt cgnaacttga ctctccgtat ggttctcgaa ccttcaacgc 360

cgtttttcaa gggaattccc ttctccnaac cgccttg 397

<210> 2075
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-H12

<400> 2075

cccttccctt ttgggatatt ttcgccgcgt ggattgatat gacgactctc tttcgccgga 60

agtcaatcgg aatccgcgac aacttcttcc ttcaatccct ttgatttttt tttggctcta 120

cttatcccaa acccttcaaa tcttcaggtc caatctcttc ttctatttgt tttttaatta 180

aaaaaatccg gcgaaaggtg aagctcttgg attcgagtgg tggctagtaa tcgatttcgg 240

tagtttagaa gtagtttata ggttttatca agctttcgat ttgatggagc cgcgagtcgg 300

aaacaagttt cggctcggaa ggaagatcgg gnggtggatt attcggagag atctatcgtg 360

ggaccaanat ccaaacngaa tgaagaagtg ggcgttaaac gttg 404

<210> 2076
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-H3

<400> 2076

acgttatcca gccgggcccg gtccgaacan aacgggtcga gccacgcgtc cgctcaaaaa 60

ttcgatcttt agggtttttc ttttancctc ttatcgctaa tctggagctc tatanagact 120

ataaagggtt tttgattgat tcgggagctc gagatttgac ttcttttagc tgattcggca 180

agtttgtatc nagaaaggat ccattggtga ggtcaatagt ggttggtggg ttttagtaat 240

ggaagacggt gagcttgatt tctccaatca ngaagtgttt tcgagttcgg ngatgggtga 300

attaccacct agcaattgtt cganggatag tttctttgat gggcttttaa gtggnnacga 360

atgctgcgtg tncccacaca cacacctggt nnccccactg ggagcaggnc aanactcaga 420

ctcacaccgt gcntccatgg tccac 445

<210> 2077
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-H7

<400> 2077

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atggatgata tattgaaatg cccctgtgat ggcataattg tgacagctgc tggttctaca 120

ggatcgtcct atgattttta cagtcggtac tttgctccta agttcggagt tgatgaggac 180

cctgtttgtg gaagtgcaca ttgtgcattg gcacattact ggagcatcaa gatgaataag 240

tttgatgctc cagtaatgtg gnagtgcaca ttgtgcattg gcacattact ggagcatcaa 300

gatgaataag tttgatttct tagcctacca agcttcgagt aggagtggga acgataagga 360

ttcatctaga caaggataag cagagggttc tcctgagagg caaagccgtt actgtgatgg 420

<210> 2078
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-H8

<400> 2078

acgcgtccgg ttctaagatc ggcgaagcgg ccacccnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnngaaca taaaaactat acctcgacga aatacaatcc taattgagaa 120

ccaaaaaagc caacgacctc tcaaatccaa gaacggggct tttgtcttca aaatgaaaag 180

tttgcaagag aaaaaggggg agagggagag agtctcagac aataccatat taacaccaaa 240

gaacgagttt ttggaagcaa aagagaccaa ccacacttac tactggtcag ggccaaaatc 300

aaaaccccct acctggaaaa agtatatanc cattttaggt atcaaatcta aaattggagt 360

ccnctccaca atcctaccct ccgcnccaaa aaccaaccaa cccntggatc cctaacatgn 420

cataagccat gtcctctctc ccnaaattgg t 451

<210> 2079
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-A12

<400> 2079

ggcccggcac antgtccaaa nnctcncggg tcgacncacg cntccncgat gnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnncta gaaatcgaga gagattggtg gaagattttt caccagattt catgggagaa 180

gaagagagtc gaattggaga cgagctttcg attttggttc tcacggcgga gcgactccgt 240

gtagctgtgg atgaagctga atcattcaaa acagagtgtg gcgaggttgg taaacaagta 300

gatcggcttg ctcaaatgct tagaacactt gttcgattcg tctctagttc ttctcaacaa 360

gtttatgatc ggccgattcg tagagttatc gtcnatgtga agaagaatct cgagcgtggg 420

ttttgctcnt gttcggtaag tgtaggagac ac 452

<210> 2080
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-063-Q1-E1-A2

<400> 2080

ctcaatacac cccagaaagt ctttactaat tagctttgtt gagcttatca aagtggcaaa 60

ttataagaca ttgcatgatt tggatatcag cttcatgttg tggctgaaga cgaaggggt 120

taataactta tgtctattgc cacatcatct ttctcttttt ctacaattac agttaccttc 180

cagagagaaa aatattagat ggaatttcct ttgtcgtacc ggcaggaaaa agtgtggcaa 240

tcgttggtac tagcgggagc ggcaagtcaa caattcttag gatgctattc agattcttcg 300

acacagattc cggaaatata aggattgacg ggcaagatat aaaggaagtg agactaagat 360

agcctccgaa gctccatagg agttgtgccg caagatactg ttctcttcaa tgacac 416

<210> 2081
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-B1

<400> 2081

acgcgtccgc ccacgcgtcc gcccacgcgt ccgcccacgc gtccgcttgt gctatctttc 60

aagcaagttt cgttgcaggg ttgatgatgt tatctttatc tactggtgcg ttattgcttg 120

aaccaagtgg ttgtggagtt gaagattcgc cgtgtaagcc tcattcgacg tttaagacgg 180

ttctgtttta tctgtcggtg tatctaatcg cgttagggta tggtggttat cagccgaaca 240

tagctacttt tggagctgat cagtttgatg cggaggattc cgttgaagga cactcnaaaa 300

tcgcgttttt caagttactt ttacttggnt ctgaatcttg gatcgctctt cncaaatact 360

gtcttggggt tacnttgagg atnaaaggga atgggccgcc ttgganttttg ggcggtccgc 420

<210> 2082
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-B4

<400> 2082

agttcttggn ttcttttctt gacattcccn atgagccana acagatccca tatgagccac 60

agaatcttac ctcatgcaac aagatnaatg atgaatctna gagaggantt aagattanag 120

ctcgacnagc acaagccccg ggttgtgctg agcagtttgt aatgcanggc gatgcctcaa 180

gaaggctgcg tcttcaggtt aaccttaaca gccacaagtc agaaactgac agtacacaac 240

ttcaatttat caanaaagan gttaaggaca caacaacnga aactatgacn aaaggatgtg 300

gaaatttcac aatgatcaan gagcaggnct agtttcanat tcaagaaaat tgcaaccatg 360

ggatgttcat acaganggct tttcagaagt cggtgtggta accggttgtg tgtgtgaatg 420

t 421

<210> 2083
<211> 345
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-063-Q1-E1-B7

<400> 2083

aaattccgcc ggaaatgttc gatctttcta agcttgtgtg tgggacttat atagacagta 60

ggttacttgt acttaggtgt gtaaatggtt cagcattgtt gttcacaagg tccagcttgg 120

accataagtc tatgtagcca tttggctcag gttcttatgt atataacaaa tgaatcattc 180

tttttgggac taaaccgttg tagtctctgt gtatgttgtg gtaatgtatg cttttggctt 240

ttaggttgta ataagagctt tttagtaaaa gctttatact atggtattct tttcatgatt 300

ataatagaaa cacaatgatt tgcaataaaa aaaaaaaaaa aaagg 345

<210> 2084
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-F6

<400> 2084

acgcgtccgc agagcttttg agtcttctaa atctctatcg aatttttcta gggttagggc 60

tcctgatcga tttcgcgagc tctgcgatta ttttaagtat taggatccga aattagaaat 120

gggtggagag ggagattcaa gtcagccgca gagtggtgaa ggagaagctg tggctgtgaa 180

catcaggtgc tctaatggca cgaaatttag tgtgaagacg agtctcgatt caacggtgga 240

gtctttcaaa gagttggtgg ctcagagcag cgatgttcca gctaatcaag cagcgcttga 300

tttacaaggg tcgtatcctc aaggacgatc aaactctcct cagctatggt ttgcangctg 360

atcacaccat tcatatggtt aaagggctct gcaccttctt cagcaccaac ctccctgctc 420

cg 422

<210> 2085
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-C1

<400> 2085

cgggtcgacn cacgcgtccg atggcgttct cgagttccat cttctctgtt antcagtttt 60

cttcttcgtt agcttcgcgt ccttcttctg caatcagtag gcagactcgt tttcccgctc 120

aaattgcttc tccagatcta tcgcctgctt tgntcgatga tcgccggaag ttcgtcggag 180

gtgtaatgtc tctcttgacn aagagtatta aaaaccgtgt atatgcttcg attaacagca 240

ttgattcggc cgctactcca tcgtanccga aatcgggnag acgatgacga cgttgttcca 300

aacgccaang gttatgatac accaaggatg gctgaanccc ngaagctact attgtacaag 360

cncagttttg ggaaaccgtc gttggggctc ctaattgaca caaanggngg gcgntgaaaa 420

gatttggngg atttgg 436

<210> 2086
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-063-Q1-E1-C11

<400> 2086

tccgcagncc ggcacaggtc cananacncn cgggtcgacn cacgcctccn nnttncgtca 60

ntttngtgag agagaagaga tctaaaaaaa tccacaattt tgttcaaatc ttggagttaa 120

atgctgaatt ttaggccttg ttgcttanat ttatggctta aagtttcaaa cttttcattg 180

gatatgtgag aagaaaatgt caggatctga gacgggttta atggcggcga ccagagaatc 240

aatgcaattt acaatggctc tccaccagca gcagcaacac agtcaagctc aacctcagca 300

gtctcaagaa caggccattg tcattcggtg gagacgacgg aactgctctt tacaagcagc 360

cgatgagatc agtatcacca ccgcagcagt accaacccaa ctcagctggt gagaattctg 420

tccntgaaca tgaacttgcc cggangtgag tccgg 455

<210> 2087
<211> 371
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-C12

<400> 2087

ttanatcgat caagctttga gtgatcagac ggaggctgtt attgtcaatg cattggagtg 60

cttatccaca ttatgcaaga gtagtttctt gcggaagana gctctcctcc aaatgatata 120

gtgtgtttat cctttgttgt gctatccatc ncaatgggta aggagggcag ttgtcacttt 180

cattgccgca agtnntgaat gcttaagtgc agtcgactct tatgcnttta ttgccccang 240

taatacgctc ttancttagt aggactgnct gcgtcaattg cttctgagga aagtctactt 300

tcatgtntga atgccccctg tcacaagggg angtagttta ncggttcccn tgaganaacc 360

aaggaaccca g 371

<210> 2088
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-062-Q1-E1-C2

<400> 2088

acncgtccgg ttgatctaaa ggaaccaaac agctggactg atgttgttga agaacacgaa 60

aaggatgtct taagcatcag cttgtgctgt caatgggaat cacctggtcg catgctacat 120

gagcgatgta aagcatattc tgcaaattag ggacttgaaa tctggttcat tgcttcacca 180

attacctcta natattggtt cagtatctga tgtttctgct cggcgcaagg acaatacctt 240

tttctttanc tttactagct ttctcactcc tgggtgtgat ttacaagtgt gacgtagcca 300

atgaatctcc anaagttaac gtattccggg aggttactgt acccggaatt tgacanggga 360

agcatttcaa gnncattcat ggtcnntcta tcccaagtan cngnttggga caagatanac 420

ctaatgttta ag 432

<210> 2089
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-C4

<400> 2089

taatcaaaaa tggagtatag gtttcatatc tctcgctttt ctcttcatca cttcctcttc 60

agctgagttc atcattcaac aggtcacaaa gggcagagga atagagtaca acagttctta 120

cagtctcgag gagaatcttg gngtgacaag agagttgaga gaagagcgac catcgagtaa 180

gatagtgaca ataacaagct tctcagtgat taaaggcaga ggagaaccct atgaatcctc 240

tgtttttgag gctgctggtt acaaatggag attggttttg tacgtgaatg gtaataaaaa 300

cgacggtgga aatgatcata tttcccttta cgcaaggatc gaagaagacn aactctcttc 360

cattaggttg ggaagtgaaa tgttgatctc aaaactcntt gtccataatg gggaagctac 420

acnaa 425

<210> 2090
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-062-Q1-E1-C7

<400> 2090

cttctcgctt cgaatcgctc tcggtttcat cgatcggaac tggatctacc aagaaatcat 60

ccgatactcg gagaaaggta aagagcatgg ctacgacaaa tataggaaag gaggagaaga 120

aaagagtcga gatttatgat ctcgaagaga atttagtgat tgatttggct aaattcacag 180

cagatctctc cgataagttt tgtaaagaga gaggcgcttt caccgtcgtt gtctccggtg 240

gctctctcat caaatcactc cggaaattac gtagaatctc cttacgttga ttctatagat 300

tgggcaaggt ggcatttttt ctgggttgac gnagagagtt gttcccaagn aatcacgatg 360

atagcancta tanactcgct tatgaatant tttctatccc anggtaccaa ttccgcctgg 420

aaatgt 426

<210> 2091
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-D3

<400> 2091

ttancccgcc cggtccgaan taaacgggtc ganccacgcg tccgagtttn ctctggttca 60

acttgtaaac aaggagaaat cgaagcggtt gttatagcca ctggagttca caccttcttt 120

ggtaaagctg ctcaccttgt ggacagcact aaccaagttg ggcacttcca gaaagttctt 180

acatccattg gaaacttctg tatctgttct attgctattg gtatagcgat tgaaatactc 240

gtcatgtacc ctatccaaca ccgaaagtac agagatggaa ttgacaatct cttggtcctc 300

ttgatcggtg gtatccccat tgctatgccc acggtcttgt ctgtngacta tggctatcgg 360

gtctcacagg ttgtcncanc aaggtgctat caccaaggcg tatgacaggc cattgaagaa 420

atggcgggaa agggntgtcn tttgcaagtg acaanancgg ggacactaac cctctan 477

<210> 2092
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-D5

<400> 2092

atctgaaaga ctcgaatcac atcttctgaa taagcaagaa gaagaagctt cttccttcac 60

ttctggtctt cttctcagca catccgtcgt tgtcgctgga tccttctgtt atggctgcgc 120

catgtcatat tcgtcgcctg ctcagtccaa aatcatggaa gaactgggac tttccgttgc 180

agattattcg tttttcactt cggtaatgac attaggagga atgattaccg ccgtgttcag 240

cggtaaaatc tctgctctcg ttggtcgtcg acagacaatg tggatctcag atgtttgctg 300

tatttttggt tggctcgctg tagcgtttgc acatgatatt ataatgctta atactggacg 360

actcttcttg gggtttgggg ttggtctcat tagttatgtg gttcctgtgt atatagcaaa 420

<210> 2093
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-D6

<400> 2093

atgcttaact tagccaattt ggctgaggag gtgcagattg ctcaccgtcg caggatcaag 60

aagctgaaga aaggtgattt cgttgatgag agttctgcaa ctactgaatc cgatattgaa 120

gagactttta agaggctcgt ttcggatctt ggtaagtctc ctgaagagat ctttgatgcc 180

ttgaagaatc agactgtgga tctggttttg actgctcatc ctactcagtc tgtgcgtaga 240

tcattgcttc agaagcatgg gaggataagg gactgtcttg ctcaactcta tgcaaaggac 300

attactcctg atgacaagca ggagctagat gagtctctgc aaagagagat tcaagctgca 360

ttccgaacaa gatgagatta agaagaacac ctccaanccc acaagatgaa atgagaactg 420

<210> 2094
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-D8

<400> 2094

tctctcgctc tctatctctc tcaaacacta tggaatccca aacaaagttc gattatgaaa 60

gtcttgcgtt cacaaagttg tctcactctc aatggactga ttacttcctc tctgttccca 120

tcgatgattc ggagttagac gctattacaa gagagattga cataatcaag cctgaagtta 180

ggaagctcct atcttccaaa ggtgatgatg agacatcaaa gaggaaagtg cttttgatcc 240

aatcgcttct tagccttggc ctcgcatttc attttgaaaa tgaaatcaan gatatattan 300

aagatgcttt tcgaaggata gatgatataa ctggtgatga aaatgacttg tctacaatct 360

ccatcatgtt ccgcgttttc agaanatacg gacacanttt ncatcaagtg tattcaa 417

<210> 2095
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-E3

<400> 2095

acacgtccgc ccacgcgtcc gattttgatt tggttttgta gcctacgaat tcgaatcatc 60

ancatcatct tcaacaccag cttaacgaaa atggagtata ataagtggcc acggactagt 120

actctctcac caacttccac ctctccaagc aaaccctaac cctaaccacc accatgtcgc 180

tacctctgct ggtcttccgt caaggatggg tggatcgatg gcggagagag caaggcangc 240

cancattcct ccactaacgg gacccctaaa gtgtcctcga tgcgactcca gcaacactaa 300

gttctgttac tacaacaact ataacctcac tcagcctcgt cacttctgca aaggttgccg 360

ttcnctactg gacacaagcg gggcgccctg agaaaacgtc cctgtaggtg gaggctgccg 420

gganggaat 429

<210> 2096
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-E6

<400> 2096

gactcttttt atgaaaacat tcatcaaatc ccgagaggag aatgaaaaac aagccgaggc 60

tgagaagaag aaactggaga aagaagcaat taaagagaag tcagcgacaa agaaagatgg 120

cgtcgataac gacaacgatc ttatccagca gatccataga catagaacat gaacaaacat 180

cggtcttgaa cggaagaccc gaggttttca gatcgatcga taaaagcttt gttttatagg 240

actcaatgtt gcacatacgg aacaagagca gagatctttc ctaagatctt aagacaaagt 300

agtcaacgtc tatgatgttt agatggaagt gttttatctc tgatcacttc attgatgtaa 360

aatcagaggt tcgtatttat gtcctagaa 389

<210> 2097
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-E7

<400> 2097

acgcgtccgc ccacgcgtcc gtgttactat agatgaagaa attacggatg agaaacaaga 60

agaggttact gtagttgaaa aagcagagtg ttctgatgct aaagatgtag ctgtggacag 120

tgatgaacct gcggatagag aagatgatga agggttggta gttgcagaaa atgttcatgt 180

tcaaagtgaa ggtatagatt gtgattctcc agttagcggt ggcagtaact ctgattcacc 240

acccgtacca gctccaccac caaaaccttc ttccactgtc aatcctggta gtaacagatc 300

ggttttggga agttttggcg ctttacgaat tggaccaaca cgaagagctg ctgggcctcg 360

ctctcttgtt tccagtagga gttcgccaac tggatcacat ccttcttctc caagatcaca 420

cagtgagaac gang 434

<210> 2098
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-E8

<400> 2098

agagccggcg aagcttgccg tttccgccgt tggaggagag tttttactgt tgctgtcctg 60

ttgacatttt gagacatgaa atgatcttgg gttgatgttt gtatggtagc agaggaatag 120

tagtcatgaa gcttatttca cttgttagaa acgttcgttc tcgccaatgt caaccggaag 180

taatctggtc tgtgcaagtt cgtttcttgc agcaagactc tgtctcgaaa gctaaaccca 240

agaaatacaa atacccgtca gtttatgatc cgtatggtcc tagaccccag ccttcaagca 300

aaatcatgga gctagctgag cgtatagctg ctttatctcc agaagaaaga aaacagattg 360

gtcctgcact caatgaacac ctgaggcttc caaaacaaca gatgatttca tcgggcgg 418

<210> 2099
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-F10

<400> 2099

tgctatatgg gatgtgcgat gtgtcaaatg caaaggatat agttgaagag ttgttgcagt 60

atcttagcac agcagaattt tctatgcggg aggaattatc acttaaagct gctattcttg 120

ctgagaagtt tgctcctgat ctttcatggt atgtagatgt gatccttcag ttgatcgaca 180

aggctgggga ttttgttagc gatgacattt ggtttcgtgt ggttcagttt gtaacaaata 240

atgaagacct gcagccttat gcggcatcaa aagcaagaga atatatggac aaaattgcaa 300

tccatgagac catggtgaag gtcagtgctt atattttggg ggagtatggt caccttttag 360

ctaagacaac ctggatgcag tgcaagtgaa ctctttag 398

<210> 2100
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-F12

<400> 2100

ggattggatc acaacaatca cgtcgttaac cgcaggcgaa tccgctttca aggtcacgtt 60

cgattacgaa accgatttcg gttaccctgg agcattcttg atcagaaaca gccatttcag 120

tgagtttctt ctcaaaagtc tcacacttga agacgttcca ggccatggca gagtccatta 180

catctgtaat tcttggattt accctgctaa acactacact acagaccgag tcttcttctc 240

caacaagact tatcttccac atgaaacacc aagcgacgct gctcaagtat agagaacgaa 300

gagctagtga gtttgagagg aaccggcgaa ggagagctta aggaatggga cagagtatat 360

gactaangct tactacaatg atttaggggt cccaccaaag gaa 403

<210> 2101
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-C10

<400> 2101

ctgttacgcc tgccaggtac cgagtccaga attcccgggc tcaaaacctg tgaagctgtt 60

gatctggagc ttgagcatca ccgaaagata gattctttca acagcggtac gaccgctcta 120

accattgtga gacagggtga tgttatttat atagcaaacg tcggggattc acgtgcggta 180

ttggccacag tttcagacga aggaagcttg gtcgcggttc agctcaccgt agatttcaag 240

ccaaacctgc ctcaggagga agagcggata atcggatgca acgggagagt attttgcctt 300

caagatgagc caggggtcca ccgtgtatgg caaccaagta gatgaatctc cggggctcgc 360

aatgtcaaga gcattcggag actattgtat caaagattac ggattggtct cagtgcctga 420

agtcactcag aggcatatat ccattagnga ccaattt 457

<210> 2102
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-062-Q1-E1-F3

<400> 2102

cggtccaana tacccgggca cagaaaaagc cattcntttt gccccttgag tgctttcagc 60

tcttcccaca aggttacaga agtaatgtca cgtgtgtacg tcggaaattt ggacccgcga 120

gttactgagc gtgaacttga ggatgagttc cgtgcctttg gagttgtcag gagtgtttgg 180

gttgcccgta gaccacctgg ttacgctttt ctagatttcg aagatcctag ggatgcccgt 240

gatgctatcc gtgctttaga tggcaagaat ggctggaggg ttgaacagtc tcacaatcga 300

ggtgagcgtg gtggcggcgg tcgtggtggt gaccgtggag gtggtggcgg cggccgtggt 360

ggtcgtggtg gctctgattt gaaatgctat gaaatgccgg tgagactggn catttcgcac 420

gtgaatgccc gtaaccgttg gtgggaactg gaacgcgtcg caacca 466

<210> 2103
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-G2

<400> 2103

cccgccggtc cagnataacg ggtcgancac gcgtccggca gaacatagag aaaaacataa 60

caatggaggt tgagaagaca gagaagaaca ttgcagagga tgatgagtct aagatcatct 120

acagaggatg gaaagtcatg cccttcatca ttggaaatga gacatttgaa aaattgggga 180

ttgttggaag ttcatcgaat ctggttatat acttaacgac ggttttcaac atgaagagca 240

tcacggctgc gaaagtcgtc aacatctacg gtggcacaag caactttggc accatcgtcg 300

ctgctttcct ctgtgactcc tactttggcc gctacaagac cctatctttc gccatgatcg 360

cttgcnttct cggttcggtg gcaatggatn taacgggctg tgatcaancc cctgcanaca 420

gntcaatggn cctanggaaa ttaggaaacg tntccaatgg ggca 464

<210> 2104
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-G3

<400> 2104

acgcgtccgc atggctaagc tctcnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ggatggctta gaatcctaca tcgtccatgt 120

gcagagatct cataagcctt ccctcttctc ctcccacaac aactggcacg tctctctcct 180

tcgctctctc ccttcttctc cccaaccagc aacgctgctc tactcttatt cacgcgccgt 240

tcatggcttc tccgctcgtc tctcccctat ccaaaccgcc gccctccgcc gtcatccttc 300

aagtcatctc cgttatacct gatcaagcgc gtgagatcac acaactcaca cgcctgcctt 360

cctcggtttc tcccaaaact ctgggactct ggagcaactc aaantaaggg gaaagacgtg 420

attggtccgg ggttttaaaa aac 443

<210> 2105
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-G4

<400> 2105

tgtactggta cccgnccggt accggtctaa acgggtcgng ccacgcgtcc gatgaaactt 60

cctattcaga gaaccttagc ttttgcctta gctcgcggga aaggcgaagc tgaaagtttc 120

agcagattgg aagccacctt tggtgataat acctccacag aatgtacctg gagttttgac 180

tttccagatt ctaaagatgc tatgtctcat ctcaagtcag aagcagacct ctctggaagc 240

aatggggcca ataatgtggc tagtgttatc gaaaaactga atgctcttcg gtcacatctc 300

ttagcagcag agaaatggaa tgcttctcaa ctacacttat gtgacaagta agtatctggg 360

aatgtgcaac anacttagtt cattatatgg ctttgagatc nctggacaat tgagcaactc 420

aacaagtcat cctagcctcc ncttgggccg gtcaagttta gnnaagnaac antcctggga 480

tgttccccgc ccaaccttа 499

<210> 2106
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-H2

<400> 2106

actgttgccc gtgcaggtac angtctagcg ggtcgangca cgcgtccgtc tttctctcac 60

aatctaatct tcttcgtctt caaactcaat ctagggttct cttctcctct ctgtaggtag 120

gattttgaac acccaaatct ctcatcgaat ttttcttgct caacgtatca tcgcacaatt 180

cgtctctcgt tttccgtcac gtggataatc gaaatctcat aatcccaaag gtaaaacaat 240

caattctggg attggaattt tggatccata ggatcgtcaa ttgaaacaat cccgatggcg 300

ttatctatga agccattcag aagccgatga ttccggtttc cagtcaaaca atctttgggt 360

cggtagccta acgccggaga cgacagagtc agatctgacc gaagttgttt gggaagatac 420

ggggatantg atangaatca cgggngtatt cctcacgaag gcttggcgtt taaanac 477

<210> 2107
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-H3

<400> 2107

ntgttacgnc tgcagtaccg gtccagaatt cccgggtcga cccacgcgtc cgcgacgcag 60

acgcaagacg catggaccgc actcgctggc cttcagggtg atgcgactct gcaaaccgtc 120

tttccacgtc gatcctcccc tccgcattga ccctttcgat cttctcgccg gcgaggattt 180

ctccgacgat ccctcttccg cctccttgtt ccgccgccac gtatcttctg ccgacgctgt 240

cgactccgat ctcagctacc gaaatagatt cctcctcaac catcctaccg atccaatcgg 300

tctctctggt cttctgcttc ttcctcagtc cttcggagcg atctatctcg gagaaacatt 360

ctgtagctat atcaagcgtc aacaatagtt ccacttcaga agttcgggat gttaccatta 420

aaggaagaaa ttcagacaga gaaggcagag gantccaact tcnggataca tccaaagtca 480

acctggttgg 490

<210> 2108
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-H4

<400> 2108

acgtttgcag tcccggtccg agtcnagnat tctcgggtcn acccacgcgt cnntnangcn 60

gttatgtctt cctccagtga agaaatttag aacctatcaa agaggcagga attttggagg 120

gtcgcaatgg tataaaggag acttgccttc agcatgcagc caggtatctc gcgaatcaag 180

agtgggtaaa aactgactcc ctgaagacag ttgaaaacac agctatacca attatcatgc 240

ttgttgtgga agtcccttgt gatctgatat gcagtataca gtcaccaaaa gatggtccag 300

actgtatcac cgttgaccag gatagcaatg gtaacactga aatggttgga tttgaagact 360

ctgcagcagc aaactcttgc caacaaacac tggaaacttg gcaattgcaa aatcctgtcc 420

gtcttgacat caagtttcaa aactccaatc ccatacgggt cctcaaaaca acgccanttg 480

gtccaaaa 488

<210> 2109
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-H5

<400> 2109

agaaagcgag acgaagaagc aaagatgttc agaaaccaat acgacacaga tgttacgaca 60

tggagtccaa caggtcgttt attccaagtg gaatacgcca tggaagcagt gaagcaagga 120

tctgcagcaa ttggactcag atctcgttct catgtcgttc tcgcttgtgt taacaaagct 180

caatcggagc tttcttcgca tcagaggaag atctttaaag tcgatgacca tatcggtgtt 240

gcaatcgctg gtctcacagc cgacggtcgt gtattgtctc ggtatatgag atcggaatcg 300

attaatcact ctttnactta tgagtctcct cttccctgtt ggtccgtctc gttgttcaac 360

cttgcctgat naagctcaag tcggtaccca acga 394

<210> 2110
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-H6

<400> 2110

acgcgtccgc cgagcctcgt catgctctta tcactggcat agattcatgg ccaggcaagc 60

agattcacag ccacaattac cgtgttcctg accaattcaa agatcaggtg gtgatagtga 120

tcggaagctc tgcgagtgga gttgatatat gcagagatat agcgcaggtc gcgaaagaag 180

tccacgtatc atctaagatc aacttcaccg gatacttacg agaagcttac cggttacgag 240

aatctatggc ttcactcaac gattcaaatt gcccgcgaag acggttcggt ggttttcgag 300

aatggaaaga caatttacgc ggatacatca tgcattgtac cggggtacaa ggtattactt 360

ccccgtttcc ttgacaccga aaanggtgag gtgactggtt gacgataatc cgtgtttgga 420

cccgttgtan aagcaaggtt tttccctcca agctcc 456

<210> 2111
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-H8

<400> 2111

ttacgttgcn gtgccggtcc ggtctngnnt ctcgggtcga cccacgcgtc cgtaaancct 60

ttacttctga gcaagacaag aaataagaag atattgagcg attatgattc gcgcagctgc 120

caaattctcc angagaagca gcggcaacga ttcgtggccg cacgatctcc gttagaggaa 180

accttattcg atactcgacg ccattgagat tgattcacgg tgaaatcagc gttccaaacg 240

cgaatcatgt tgctattcag atggttaatt acgctctttc tcacgctagg tcacaaaaat 300

cagatgaatc ttatgctcaa gggatgctag tgcttgagca gtgtcttggg aatcaaccta 360

acgatgatca ggtttctcat gantctaaaa gcaacagtct tgctttgcca atgtctgatc 420

nttttatacg aaagtgggaa tagtagttga gggcaattga acgccttaag caagtccatg 480

aatcctggac acaact 496

<210> 2112
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-H9

<400> 2112

aggaggatgt ctcgttcggc gacttgacct ctctctctct ctctctttta ccttcattgt 60

tcactgtttc cagacattga aagaaagatc attagtttct gaggggataa ccatttttt 120

ttcttcttaa aaagtttttt tttttgtcaa ttggtcttct tcttcctcat ccgctcgctt 180

atatttaatt taataataat aaaaatcggt gttcattttt atataaaagt ataaattttg 240

tgtttggttg atccatccgt agtcgtagta gatctacaag ctctgaaatt ccacgcccac 300

atctcctccg tcctcttgag atccttctct tcattcattt tcttgctcaa cttgagttgc 360

ttccaacatc ttgcaagatt gtcctttgan gttcattcag ggtcttgaaa aa 412

<210> 2113
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-A2

<400> 2113

acgcgtccga ttctatgggt gtaatgcacc gagacttgaa gcccgaaaac tttctctttc 60

ttagtaaaga tgagaactca ccattgaaag ctacagactt tggtctctct gtcttcttca 120

agccaggtga taagtttaag gatcttgttg gaagtgcata ctatgttgcc ccagaagttc 180

taaaacggaa ctatggacca gaggctgata tctggagtgc tggtgtgatt ctatacatcc 240

ttctcagtgg tgttccgcct ttctggggag aaaatgaaac ggggatcttt gatgccattc 300

ttcaagggca acttgatttt tcagctgatc catggccagc actatcagat gggtgccaaa 360

gatcttgtga gggaaaatgt taaaatatga ncctaaagat cggcttacaa gctgcgggaa 420

gtgctaaatc atcccgttgg attag 445

<210> 2114
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-A3

<400> 2114

agagaataat gatggaaact cgacaacaaa agtagagtgt acagtctcgg ccttcttaac 60

agatgagatc tacgctttgc cgaaggcgac caaaacagaa cacttacttg ctaagagata 120

tgctacggtt agtctaggat gggtaatcca gacgagtaat agatctttcc tggactcctt 180

ggccttggcc tgcaaagaca gagaagatta ccgcaatact actaacttgg aaagaaagtg 240

tacatgccgg cagnatcact atatctgaga caagtttatg caaactgtgg gtncacctat 300

gggttacaca nggttancca tatgntttga acngatgcca nagatattga tgaatgtaaa 360

agtcnaattc cnagtncggn ggaaagacag aaacntgngt gaaatttnga agganggcta 420

atccctgccn tgcgc 435

<210> 2115
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-061-Q1-E2-A4

<400> 2115

ctgttacgtt tgccggnccc ggtccanaat taccgggtcg acccacgcgt ccgggaaaaa 60

aaggacgttc ttaaggagaa agattctggg aaggaagaat ctccgtcacc accggcggat 120

tcttcggctc cggcggcgga gaagaaagct gaagacaccg gtggagctgt ccctgataat 180

ggcaaagttg gtaaaaagag aaaaagaaag ggcaaagttt ggctactact aacaatccta 240

ccgatggacc tgcccgtact caatcacttc ctccgcccac tgcaacagat tatgaccgtc 300

caattaatca gatcaacgac caccatataa caaccactaa taatccgcca cgtcacgatc 360

tgtatcctta tcctgcacaa ggctattatg cgccgcaagt catgtatggc gtaagttata 420

acgttgctca anctccgggt gagtgtagac gctgcgtcng tattaataca cctccaccac 480

cgtattccgt 490

<210> 2116
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-F7

<400> 2116

aaatcttcat cgacaaaatt cgattcagct gctgcagcta ttcacttcgt ccatagcacg 60

tanatggcag aaaaggcctg tatanaacgt cttcaaaagg aatatanagc actttgcaag 120

gaaccagtct cccatgttgt tgctcgtcct tccccaaatg acattctcga gtggcattat 180

gtgctggaag gcagtgaggg aacacctttt gcaggtggat tttactatgg aaagatcaag 240

tttcctcncg agtatcctta caagccacca gggattacaa tgactacacc aaatggtcga 300

ttcatgacac agaagaaaat ttgtttatct atgantgatt ttcatccaga aagctggaat 360

cccgatgtgg tccgtatcaa gcatacttac aggaactccn ccaattaagn atgggtacaa 420

gtcccg 426

<210> 2117
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-C3

<400> 2117

ggaagagctg aaagattcgc gacgaagcaa aacgacagtg ttatctatcg ccgccttgtt 60

gttctgttta acaagtgtag aggaaccaaa gttgaaaact ttgaacttcc cattgatttt 120

aatgttaatt actgatcatt cgaatctgaa attgaagcat atgagtgctt aatctgtgag 180

tgttagaaga agtagaagaa gatgcagagg gttagggttt catctcaaag agcagttgtg 240

cataagcttg gtgattctca gatgacatta tctcccaaat ttagagtagc tgcatcgata 300

caatcgacat tgttcgatag atcatcggaa ttagaactgt ctcttagagg agagcccttg 360

attcccggtt taccagacga tgttgcgctt aactggtcct ttacggggtt ccaattcaaa 420

gncatgtt 428

<210> 2118
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-C9

<400> 2118

acgcgtccgc ccacgcgtcc gaggttttca aggctttgct ccactacata tacaaggatg 60

ctctcattga agatgcagag tcatcatcat cttccggttc atctgttggt ccatctgcct 120

cagacacatt anctgcaaag ctactaggag ccgctgataa atacaagttg cctagattaa 180

gtctaatgtg cgagtcagtg ctctgcaagg atatatcagt agattccgtt gcaaatattt 240

tggcgcttgc tgaccgttac aatgcttccg ccttgaaatc cgtttgtctg aaattcgcag 300

cagaaaatct catcgctgtt atgaggtcag atgggtttga ttatctaagg gaacactgcc 360

cgtcacttca gtctgagctt ctgaaaacag ttgccgggtt nccaaaaagg 410

<210> 2119
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-D10

<400> 2119

gagtattctc gcattgtctg aagggagata aaagcggtgg aggtataatg gttctaggtc 60

aaatcaagag gccagatacc gtctatactc ctcttgttcc atcacagtga gttctcaatc 120

tttctattat acatttaaac tcttatcaca ttacgtaaag agaagcacan gtagattttg 180

gggtacttaa catcatgatg aatcagactt caatgttagg gtaggattcc tanatttatt 240

tttgtataag acaaggaggt agatccaggg tttaactgat gattatgaaa gtcatttaca 300

cagatataaa tgcnagagtt gttacaatat ctgctanatc attctgcttg tangaatcat 360

atgatccang aantagacat tttggaccct 390

<210> 2120
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-D9

<400> 2120

ctattgcgtc ctgtaaaggc ttttttggag ggagataagg ctagaaacta cttgacccaa 60

aaaacaaagg aggagttact gcatggcagt gtcagtgaaa ttaccaggcg gtattatgaa 120

ttagctgctg atgttgttag cgtggcaaga aaaacacagt catcgcttca gaaattgcgt 180

caaaatgcac agagacgagg aggtgcagca tcaggtgttt ctgatcaaaa tgtatctgaa 240

acagacaaga tgtgtatgca gttgttcctt gatattcagg agtatggccg aaacgtttct 300

gctttggggc tgaaaccggc ggatattccg gagtactgtt ccttctggca atgcgttgca 360

cctgcngata ggcaaaactc aattaagtgt ttgangacgc tcgcttccaa ac 412

<210> 2121
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-E1

<400> 2121

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aaaatggtga agtttacagc tgatgagctt cgaaggatta tggactacaa acacaacatc 120

cgtaatatgt ctgttattgc tcatgtcgac cacgggaaat ccactcttac tgattctttg 180

gttgctgctg ctggtatcat tgcccaagag gttgctggtg atgttcgtat gactgatacc 240

anagctgatg angctgaacg tggtatcacn atcaagtcca ctggtanttc tctctactan 300

gagatgactg atgaatcctt gangagtttc actggagcca naagaccgaa gacccagtac 360

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ggctcccccg ta 432

<210> 2122
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-E11

<400> 2122

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gaggtgtagc agacggagga gaatctgata ccgacgagga tttgcgcgac aacgatgatg 180

ttgttatgcc gggaacgaac gaagctgaag ctgaagacga cgatcccgaa gaggaagatc 240

tcaattctcc gtctacatca tcactcccca tggtttctac gatctcagcg actgctgttg 300

tttccgggac cccgacggcg acttcctcta caggcgccgt gaccgttgca cttccggctg 360

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<210> 2123
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-E2

<400> 2123

aaaaaggaac catcaaagag gaagccaaga aaaaaaaacg tcggtgatga gaggaggggc 60

tttgttatgc ggacaagtcc aagatgagat tgaacagctt tcgagagaga gtagtcattt 120

tagtctttct actggaattt taccttcact tggtgcaaga agtaatcgac gagttaagct 180

taggagattc gttgtatctc cttatgatca caaatacagg atatgggagg ctttcctagt 240

ggttcttgtg gtttacacag cttgggtttc gcctttcgag tttgggttct tgagaaagcc 300

aaggccacca ctatctatca ncgataacat tgtgaacgca ttcttcgcca tcgatatcat 360

catgacattc cttggtgggt anctccgatn aatcgacgtt acctccaatg gttgantgaa 420

ccgttaa 427

<210> 2124
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-060-Q1-E1-E3

<400> 2124

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ccatttttct caaggcaatc tctctctctc tgcctcatct cataaaccca ttacaccaaa 120

acctcatcgt agagagagaa acacaccaac cattgttaca ctctaagaga agagaagaga 180

gaaggaaaaa tggacggtgt atcaccaaag tttgtgttgc cggagacatt cgacggcgtg 240

aggatggaga tcacaggcca actaggcatg atctgggagc ttgtaaaagc accagtgatt 300

gtccctcttc ttcaattagc tgtttacatc tgtttgctta tgtctgtcat gcttttatgt 360

gagaaggttt acatgggaat cgtcatcgtc ctcgtcaaac tcctcctgga aaaa 414

<210> 2125
<211> 435

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-E6

<400> 2125

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ctttagatct cataacccaa caccttctta ctgatttccc ttccttagac acctttgcct 180

ccaccatcca ccactgcacc acctcaactc taagccaacg caaaccacct cttgccacta 240

tagcagttcc tactactgca ccggtggttc aagagaatga tcaaaggcat tacagaggcg 300

tcaggagaag accatggggt aagtatgcgg ctgagatcag agacccaaac aagaaaggtg 360

ttccgtgtcn gggtaggnac tttggcaaaa gncatgggaa gctgnaagan ggtttggcca 420

agggaagctt ttaaa 435

<210> 2126
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-E9

<400> 2126

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gtggtttcgt agtagccggt tggtttattg gctgcttttg attacgcttt ggacgtatct 180

tggattttat gttcagtcta ggtgggcaca tgataatgaa agcaaagttg agtttttacg 240

gtttggaggc agaccgagaa aggatgagtt atatatggag aagattaaag gactggatgt 300

tgttgctaat gagaattctg aggctttggt taatattact ggtaaagatg atctggttcg 360

aataagagga cggatgttag tctgatcaag aaagatgatg gggtttctcg acggagcttg 420

agttccaagc agaagacgag aaaaactgtc cg 452

<210> 2127
<211> 411

<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-060-Q1-E1-F10

<400> 2127

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tttactaacg atcccttctc tgcaggctca tctttatcta atttcgttta ctcattatat 120

cttctaatcc gtttcgtata ctatcgctat tcttgttttc tgtttgtttg tattttggga 180

ttttctttgt gtttagtgat aatggatgca ggtttgaatc ggtgcccact tcaagaacac 240

tttcttccca gaaaaaattc caaggaaaat ctggacaggt tcataccgaa tagatcagcg 300

atgaattttg actatgctca ctttgccctc actgaagaaa gaaaaggtaa ggatcaatct 360

gcaacggtaa gttcaccatc caaagaggcc tacaggaagc aattgggtga a 411

<210> 2128
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-060-Q1-E1-F3

<400> 2128

gggttggtct tctcgattcg tatcacaacg aagcgaacgc cgatgatatt ttgactaaaa 60

tcgaagaagg aagagatgtt tccggtttaa ggaagattca ggtcggagtc accggtatga 120

cttgtgctgc ttgttctaat tccgttgaag cagctttgat gaacgttaat ggcgtcttca 180

aagcctctgt tgctttgtta cagaatcgag ccgatgtcgt cttcgaccct aatttagtca 240

aggaagagga tattaaagaa gctatagagg atgctggatt tgaggctgag atattggctg 300

aagaacagac acaagctact ttggtgggtc aatttacaat tggaggtatg acttgtgcaa 360

cttgtgttaa ctccgttgaa aggaatccaa gaaatctccc gga 403

<210> 2129
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-F4

<400> 2129

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aggctataga gattgatgga caaactgtgt ctagggtgct tcatcatctt tgtttgtttg 120

taaaactctt gtcacacaca ctgttatgag tcattttctg ctgtgtgtgt tttgttttgt 180

ggtgatgtaa gttaaaaaca agcgtgattc tcatgtggcc catctcaatc aatggttggt 240

gatttgtggg gtttttaggc ttttctatta tcttatcttt tggggataag ataaaagcct 300

aaaactgtat gtaactatgt atggttcttc gaatatttta tcatttatct ctaatgtcaa 360

aaaaanaaaa naaaaagggc gggccgctca aaaggttcaa gcttacgtac cgtgcatgcn 420

actc 424

<210> 2130
<211> 224
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-060-Q1-E1-F5

<400> 2130

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gagataatta atcactgatc tgagcatttc ttgtcgaata gtgttttatg tatattaggg 120

tttacttttg ctcactgtaa cctgtttttt ctttgtttct tggtctaaga aatgattctt 180

gaacaaatcc taatcgtaac tttatgcaaa aaaaaaaaaa aagg 224

<210> 2131
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-B8

<400> 2131

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cacttgggtt ctcttggggt aactggaaat cttgcactgc agcccatgta cactttatca 120

ggtggtcaga aaagcagagt tgcatttgcg aagataacat tcaagaaacc acacttgcta 180

ttgcttgatg agccgtccaa tcatcttgat ttggatgccg tggaagcttt gattcaagga 240

cttgtcttat tccaaggcgg tatttgcatg gtgagtcacg acgagcatct gatatcggga 300

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catgactana agaaagcttt ctccagtcct ccaactaagc cg 402

<210> 2132
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-F6

<400> 2132

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gcgggaaact tggttgtacc aaatttgtct tcagaggtga gtgacgtgac atcgtcctct 120

ggaccggtta agctggcaga cctgcaaaga attctgaaca acctctctgg tggccctgta 180

ggtattgctg gagatcaaga cgaaggttta gcattagggg atatcttgaa accggagttg 240

ataatgccat tgcttgaggc gttgccggta caagaacgac tatcttcgca tttacctgag 300

ggtcattcta gggcaanaag atatactggg agttgttgca ngagccctcc ttttcgtcaa 360

caagtagatg catttaccta atgttctccg cacaagaacn aatnnanttt gactcaattt 420

tgggtanaga acccaagtta atccaanttc 450

<210> 2133
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-H3

<400> 2133

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aaatagaatc cctaaaagag aaagaaagca aaaatggagg acacgaagcc accattggga 120

ggtaacaaca atcctnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnatgct tctattgcag caattgcaaa aacaacaaca 240

gcaacaagca gcaatgtcta gattcccgtc gaacatcgac gtgcatctcc ggccaccggg 300

gttgattcag aaccgaccca ttaatcctcc gcctcagcag aatcctaccc ctaaccctaa 360

tttgggacag caagacaccg aattttcann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nattgatgag ccattgaatc 480

acatcgagct tcagtgcgcc tatcagggac gcttggn 517

<210> 2134
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-H4

<400> 2134

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tatattgttg gttttagatg atgtttgggc tgangaagag tccttgctac aaaagtttct 120

gattcagcta cctgattaca agattttggt gacttctcgg tttgagttca caagttttgg 180

tcccactttt catttgaaac ccttgataga tgacgaggtc gaatgcagag atgagataga 240

agaaaatgaa nagcttccag aggtgaatcc tcctcttagc atgtgtggtg gttgcaactc 300

tgcggttaaa catgaagaat ctgtgaatat tttgggtgtt ctttggcatc ctggatgctt 360

ctgctgtcgt tcttgtgaca aaccaattgc tattcatgag ctcgagaacc atgtttcaaa 420

ctcaagaagg caannttcac aaatcctgct atgaaccggt actgctangt ctgcaaaaga 480

gannaagatt gaaaacgttc anta 504

<210> 2135
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-H5

<400> 2135

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ctccgtcgtc tctcctcagc cgactcgcgg cgatttgcat accggaatct cgccgagaat 120

atggaagatc cagtcataag ggtggtggta gggaaggaga agaaggagtt catggtcgaa 180

ccgtatgtac tcgaagagta cccgttcaga gtcttgatag gttcagctaa ggatcgtgcc 240

aagaaccggt taaaccggac cggtagagtg gtgtggcttg atcatgtcga ctcgatctta 300

tttgagcact tgctgtggct tcttcggaac gatgcctcta cgttttcgga tttggatgtt 360

ctcgagatca ttgaattcta tgctcaagat tgttagggaa agaaatggat taacaagtgt 420

gcttttacag ttttacnttc agtgangata tgatcattca agaaaacgtt ttact 475

<210> 2136
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-H6

<400> 2136

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aatcgcgtta ttctaggtcc gccgctgttg gatctgcaaa ttccccttcg aatttgaaca 120

tttgtgattt caaattcttc gagaagatga gcgcgaaaaa gcttgaaggt tcgtcggctc 180

cggcgaatcg acgggatccg tacgaggtcc tttgtgtatc aaaggacgct aatgatcaag 240

aaatcaaatc cgcttacaga aaattagctc tcaagtatca tccggataag aatgcgaaca 300

atcctgatgc ttctgagctt ttcaaggaag ttgcattttc gtatagcatt ttgtctgatc 360

ctgaaaagag aaggcactat gacaatgcan gatttgaggc actcgatgct gatggaatgg 420

atatggaaat tgacttgtca aacntcggga ccgtaa 456

<210> 2137
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-H7

<400> 2137

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tttgtatacc tttctctaga gcgttgcacc tgcagtttag atgatctaat caaatcctat 180

ttagagtttt ctatgacaaa agtattggaa aacaacgatt ctactgaagg agtggctgct 240

tataagatcc aacttgattc tttggaggga gttatcaaag gaaacaactt ttggaaagtg 300

gggggtcacc cgtcacctct catgcttaaa ctaatgaggg atatagtttg tggaatcgtc 360

cacttacacg aattgggaat agttcatcgg gacntgaagc cacagnatgt gtnaattagt 420

aaagatatga ctttgagtgc aannactgtc cgnnatgggc atttagcnag cgtatgtcc 479

<210> 2138
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-H8

<400> 2138

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agaagaaaca cgaggcggcg gatttgccac gtgttgagct gacggcgatt gacttgcaat 120

ggatgcatgt attaagcgaa ggctgggcaa gtccactcgg aggtttcatg agagaatccg 180

agttcctcca aactcttcat tttaactcgc tacgtcttga cgacggctcc gtcgttaaca 240

tgtccgtgcc tattgttctc gctattgacg atgaacaaaa agcacgtatc ggcgagtcta 300

cacgtgtcgc tcttttcaat tccgatggta accccgtcgc tatcctcagc gatattgaga 360

tttataagca tccaaaggaa gaaaggatag ctagaacatg gggtacgacg gctccaggtt 420

tgccttacgt tagacgangg cgatanctaa tgctggaaac tgggctcaat tgggggtgat 480

tcttgagggt ccttgagc 498

<210> 2139
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-059-Q1-E1-H9

<400> 2139

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tggagaaatt ctcgtacaac tcttatccag attcaaccga ctcgtcaccg agatctcgtg 120

agatcgaatt cgataacccg ccgcctccat gggatgatca gaaccagaac cagcagcaac 180

atagctacaa ggtgaagttt atgtgcagct atggcggcaa gattcagcca cggcctcacg 240

ataatcagct cacttacgta aacggagaaa cgaagattct ttccgttgat cgcgggatta 300

gattccctgt tttaagcttc caaactctcc accgtatgcg gcggcggtga tggcggcgga 360

ggagaagtta cgtttaagta tcagcttccg ggagaagact tagacgcttt gatctcggtt 420

acgaacgatg atgatctggg agcatatgat gcacgaagta 460

<210> 2140
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-A12

<400> 2140

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tatggccctc ctggttctgg gaagacactt attgcccgtg ctgttgctaa tgagactggt 120

gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnctcttga cacttatgga tggtcttaaa tccaagagcc catgtgattg 360

ttatgggaag ctaccaaacc gtcccaacag cattgaccct gctttgagaa gatttggacg 420

ttttggatag gagaaattga tattgggtgt tccnggatga aa 462

<210> 2141
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-A2

<400> 2141

acgcgtccga tcaaaaccgc ctccatttct cattcnctct ctctctaaaa aaccaaatcc 60

atgagtcaga gaaaatctgt gatggctctt tccaacgcct cctctctctc caccagatct 120

atctacggcg gtgatctttc tcaccgtcca agcaaccgtc aatcatcctt cacatttcat 180

cccgccgtca acaccaagcc taaatccgtt aacctcgtca cggctgtaca cgcggctgag 240

ccagctanaa acgctgtttc agtcaaagaa tccgttgcgt cttcttcgtc tggtgcattg 300

aaatggactc cagagagctg gaaactgaag aaggctctgc aacttcctga ttatcctaac 360

gccaatnagc ttgagtctgt gcttaaaang natagagggn ntttcctccg gaatgtgntc 420

gcccgggaaa aagccnaggg atccctggag 450

<210> 2142
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-A8

<400> 2142

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tcggcgaaca acgagtacga gtttctgagt gagattgggc tgacttctca caacttggga 180

tcttacgttg ctggcaaatg gcaagccaac ggacctcttg tttcaactct caatcctgct 240

aacaatcagc caattgctca agttgtggaa gcttctctag aggattacga gcaaggtttg 300

aaagcttgcg aggaagcagc taaaatatgg atgcaggtta cggctcctaa agagangtga 360

tatcgtcaga caagattggg ggaatgcact aagattcaaa cctgacnacc ttgggcgtcn 420

tccttcccct tgaaaatgga aaa 443

<210> 2143
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-A9

<400> 2143

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ttcttcataa gttcactgtc gatcttccga aaaagcacgg aagaggagga caatctgcgt 120

tgcgatttgc tcgtcttagg atggagaaga gacataacta tgtgaggaaa accgcggagc 180

ttgccactca gttttacatt aatccagcta cgagtcagcc taatgtctct ggtcttatac 240

ttgctggttc agcggatttt aagaccgagc taagtcaatc agaactgttt gatcctcgtc 300

ttcaagctaa gatattgaat gtggttgatg tttcttacgg aggagagaat ggntcaacca 360

agcaatttga nctgtcngct gaagattcct atcgaatgtn aaagttcaga 410

<210> 2144
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-B4

<400> 2144

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ttttttttat tttccttgtc tcttacctga tttggtgatt tattattaca tcaaccactc 120

gattcgttag atttccggat ttgaaaaaga gtcaccaact tgtacggatt ctcgttttgg 180

ggatcgagta ttgctgattt gtgattttgt tgtttttggg tactttccct ttgtggattc 240

ggatctggtt ggtggctttg tcaaatgggc gcattagatg anggatgttt gaatctggga 300

gctcgacatt gggaatgaaa aatggctgca attgaanctt gcnttccagc accaaacctg 360

aanactttag caatccaaag acgctgtcaa acttcccctt gcaaaggtcc tcaatgaaan 420

atgtcaatcc ggga 434

<210> 2145
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-060-Q1-E1-B7

<400> 2145

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acactgattc caggcttctt agtatacagt gttgtggttg tgaagaacag taacttcaga 120

ttttgcgttt agactatgaa aatggatttg tatatcttat gttgtgctag ttcctagctg 180

ttagagctgg aattgatctc tggatactta gacatgttgt tacatgagtg gtggtgcgac 240

attgatactg tttttgttgc aggagagagt gagagattct tgcagaaagc aatacaagaa 300

caaggaagag gaagggtgtt agacaccatt aacgagattc aagaaaggca tgatgcggtt 360

aaagacattg agaagaatct cagggagctt caccaggtgt ttctagacat ggccgtgctg 420

gtagagcanc agggagctca gcttgatgac atcgaanagt catgtgggg 469

<210> 2146
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-H11

<400> 2146

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ctantcactg atttcttcta atcctccggt ggagtgagaa gatgatatct ccgacgttgt 120

ttcctcncct ctgcgcttta tttctatgtc ttccagtggc tgttatcttc acagtccagc 180

gagaactcac ctgcgttatc tcgccggagt ttggtttccg ctctctttcc gtcttctctc 240

tttactctcg aaatgtcccc gactcttctt cttcttctcc ggcggttcgg attcgacagn 300

cgattcccaa agaagacgac cctcttcttc nagntatctt ctcggggtta acccgaatct 360

acctccnggt tcgacncggg aaaatacttt natggtantt aacgacgtcg cctcttccgt 420

tcgcgcgtct ttggganatg nttcttcgac ggggatctcc a 461

<210> 2147
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-G7

<400> 2147

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ctagcagtcg tctctttctc agttctccat gggaaagtct aaatccgcca ccaaagttgt 120

tgcagagatt aaggccacta agcctttgaa gaaaggcaag agagagcctg aagatgatat 180

tgacaccaaa gtgagtctta agaagcagaa gaaagacgtg attgctgctg tccagaagga 240

aaaagctgtg aagaaggttc ctaagaaggt tgagagctct gatgattcag attctgaatc 300

tgaggaagag gagaaggcta agaaagtccc agccaagaag gctgcttcaa gcagtgatga 360

gtcatctgat gactcttctt cagatgatga acctgcaccc aagaaggccg ttgctgctac 420

taacggaact gttgcaaaga agtctaagga tgactcatca tcatctgatg atgattcttc 480

agacgaggaa gttgctgtca ccaagaagcc cgcagctg 518

<210> 2148
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-G9

<400> 2148

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natgggtcga ctcgtgtcan aaggctacgt tttaaccgtt cttgctccta acgacgaagc 120

catggctaag ctcacaacgg accagcttag cgagccaggt gctcctgaac aaattatgta 180

ttaccacatc ataccggagt ancaaacaga ggagagtatg tanaacgctg ttcggagatt 240

cggaaaagtg aagtatgatt cattganatt cccacataaa gtgttggctc aagaagctga 300

tggatctgtc nnattcggga cagcngtgat gggttcannc ttacttgntt gattctgana 360

tctanagnng acnggtccgg gatttcagtt caagggtan 399

<210> 2149
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-H3

<400> 2149

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agtagagagc tcgttttctt gatcttacag tttctcgatg aagagaagtt taaagagact 180

gttcacaagc ttgaacaaga atctgggttt ttcttcaata tgaagtattt tgaggatgag 240

gttcacaatg gaaattggga tgaggttgag aagtatctct ctggtttcac taaagtagat 300

gataatagat actctatgaa gatattcttc gangataaga aagcagaagt atctcgaggc 360

tttggataag catgatcgtc ccaaggctgt ggatatacta gtgaaggatt tgaaagtgtt 420

ttcaactttt aatgaggagc ttttcaagga aataaacaca gctcttgaca ttggagaact 480

tccgggagaa tgaacagttt tccangtaag ggggaca 517

<210> 2150
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-H5

<400> 2150

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aatgcattcc tctttgataa aattgggatt tcttcttctt cttattcagg tatcattgtc 120

tcatgctcaa ctaagccctt ccttttacga taaaacatgt ccgcaagtct ttgacattgc 180

aaccactacc attgtcaatg ctctaagatc ggaccctcgc atcgctgcaa gcatccttcg 240

tcttcatttc cacgactgct ttgttaatgg atgtgatgca tcgatattgt tagacaacac 300

cacatcgttt aggacggaga aagatgcgtt tgggaacgct aattccgctc gaggtttcga 360

tgtgatcgac aaaatgaagg ctgccgtgga gaaagcatgt cctaaaactg tttcatgtgc 420

tgatttgctc gccatcgcgg ctcaagaatc tgtcgttttg gcgggaggtc cttcatggag 480

gggttccaaa tggaaag 497

<210> 2151
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-H7

<400> 2151

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ggagattgat gatggcacgc aaggtatgat taggtttgat catttctctc ttgagaacca 180

gagtggtttg tctcgtttgg aggcaaacga tgaagatggg tctgttcaat cgggtagtcc 240

angatggatc gaacctagct ccgatgttcc ttanggtccg aagcatttta gtgagttatg 300

gtctgattca agcantgatc ggcttgatga tnagaggtta gtggatgatg atggtgaata 360

acgaggatgg gtatagagag aancgaagtg ggtattgttn gaatanagtg aagngtatat 420

ctcaggacat ggatttgatg agcnctgagg ag 452

<210> 2152
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-H9

<400> 2152

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aatgctacgc tcttcaactc tggtctaatg gtggttgagc catctaattc aacattccag 180

ttactaatgg ataacattaa tgaagttgtg tcttacaacg gaggagacca aggttacctt 240

aacgangata ttcacatggt ggcatcggat tccaaaacac atgaatttct tgaagcattt 300

ctgggaagga gacgaacctg agattaaaaa natgaagacg aagtctattt ggagctgatt 360

ctccgatcct atacgttctt cattacctan gttataacaa accctggtta tgcctcagna 420

g 421

<210> 2153
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-A10

<400> 2153

aantgtttcc ctggccgtan cggtccggaa attcccgggg tcgacccacg cgtccgccca 60

cgcgtccgcc cacgcgtccg tccttctcga ccacttctct atcaccaaag actctcctca 120

agggaaagcc ataaaggaga ctttgggaca ttgtgatgct aaagctattg aaggagagca 180

taagttttgt ggaacttctt tggagtcatt gatcgatctt gtgaagaaaa caatggggta 240

taatgttgac ctcaaggtca tgacgactaa agtaatggta ccggcccaaa attcgataag 300

ctacgctttg cataactaca cattcgtcga ggctccaaag gaacttgttg ggattaagat 360

gttgggatgt cacagaatgc cttacccttа tgctgtttac tattgccatg gacataaagg 420

tggaagtaga gtctttgaag ttaatttggt gacggatgat gggagacaac gggtagtagg 480

acccgctgtc tgccacatgg acac 504

<210> 2154
<211> 521
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-A2

<400> 2154

ggtttcctgc gcccacggtc cggaatcccg ggtcgaccca cgcgtccgcc cacgcgtccg 60

acttttggan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnaga cactaagatt caagtcctct ctttggtcgg agaagatgca 180

ggtagtctcg agcttcgatt ttcagtcttc gccgttctca cacggcgccg gagagattct 240

catttctccg gtagaccacc gagagttatc ctcacacggt gacgcgcttg aaggcgcgtg 300

tgatgactcg actagattgg cggcggtgaa agtacagaag gtctacagga gttatcgtac 360

gcggcgtaga ttagcagact ctgtcgttgt cgccgaagag ctctggtggc aagcgatgga 420

ttatgcgang cttaatcata gtacgatttc gtttttcgat tactcgagac ctgaaactgc 480

tgtttccaaa atgggaaccg tgttaanctt gaatgcttcc a 521

<210> 2155
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-A3

<400> 2155

nttccctgcc cctaccggtc caatactcgg gncnnccang gcgtctgccn angcgtcngc 60

ggacgcgtgg ggggagaatt accacaggat gaaggcgatc tcagacatcc atgatttgcc 120

tcttttgtct tctttacctt attcgtctct cantctttga atcnccttcc cctttctctc 180

aatcttcctc acttacattt cttatctcac tccctctctc actttctcct tcaatgttct 240

ctcctctgcg ttttcacgaa acagagaacc ttatcgttcc gtcttcgtag acattgaaat 300

cgatagagag gtgttgattt gattaggttt aatattgatt cggatgaang gaagagatgg 360

ttactaatan ctacatggat acgcgatcaa atttgacaag tgtgaatcga ggatccaatg 420

tggatctcga agatcgattc cagaagggag ctcgaatctt tgctccaaca acatcgtaat 480

cagcaatcat ttggccgaga acgagaacga gacattg 517

<210> 2156
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-A5

<400> 2156

ctacggtcca naatcccggg tcgacccacg cgtccgccca cgcgtccgat ctgcagatca 60

cttatacaca gccatttgtg gaatcatacc aaacatttct agcccaggtt gcaggatatt 120

tcattgtgga ggatcgggtg attaggacag ctggagattt cttgttggct gatcaagttg 180

agacaatgtg ggaaacagcc atttccaaaa ttgtagccat attggagaac caatttgcca 240

gaatggattc gcctactcat ctgcttttgg tgaaagatta tgtaactctc cttggcacaa 300

cccttagaca gtacggttat gaagtgggtc cagttcttga tgcccttgac aagagccgag 360

ataaatacca cgagcttctt cttgaagagt gtcgaaagca aattgtgact gctattacag 420

aggacactta tcagcagatg gtaatcaaga aggaagctga ctatgaaaac aatgtcntgt 480

cgtttaacct tcagacctca gacat 505

<210> 2157
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-A7

<400> 2157

taccggtccg naatcccggg tcgacccacg cgtccgccca cgcgtccgtg catttttcc 60

tcttctaagc tcgtttcaga tcttcgattt caccattttt ataaactatt atgcgaactt 120

agttttgttc tttgtgattt tgtatgacaa tgatcttctt ctctaagctt aatcgctcca 180

tttctcgttc aaagggattt ttgtacggtg gtggtgttag atcggcggca aggctactta 240

cttcgccggg acttgaggcg gcgtctgtga atgaagtgga aggtggatta gggtttataa 300

gaagacactt tgcttcttta gcttcacgga agggtttagt caataatgat ttgattggtg 360

tttttgctaa tccaagactt cgtagattct tctctgatga agctcctaag aagaagaatt 420

atgagaacta ttttcctaaa gataagcaag aacccaagag tgatcagaaa tcagagcata 480

aagaggggtt cagaaaagaa tga 503

<210> 2158
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-059-Q1-E1-B1

<400> 2158

nttttctggg gcctcccggt ccggaaaaan ccgggtcgac ccacgcgtcc gcggacgcgt 60

gggtttcgtc gtctcctcca ttgcaaaatc tagctcgatc tgtgaaggtt tctctgagtt 120

cttcaaaaat ctcttctaga gaaagacttc attagctcaa ttttagcaac ttcctccacc 180

tccttttact cacactgtgc ttcgatttca acttcgcatt tcacaatgat ccccaacgga 240

gaattgagat tacctgctct caaggtccgt gaagaccgcg tgtcaccctc agctcctatt 300

ccggtcacca gaaccctagt ggctgatact gacgtcactt ccgatgacga tatgagtaca 360

aattccgagg atgtctctct cgattcgtct cccgagaaca gtagagtgtc cagtgccgtt 420

ggtcgcagct acgggagaaa ttcttcttat tatacttact ccgaggtgaa gctcatcaag 480

agagactttg gtcggtgcgc gcgaacanga cgggaact 518

<210> 2159
<211> 524
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-G3

<400> 2159

ttncgcctgt ncggtaggcc tccgaanatt cccanggtcg acccacgcnt ccggaaagat 60

caaatctttg acgacatcaa ggaggaggat ttggtaagct acagataaaa acaaaagcta 120

tgatatgaga taatgtagtc caccaccaca ccaaattccc ccttcaccgt ctctcttcgt 180

cggtgattca cattccgatt tggtgtcttt ttttactctt aacaagtcct caaaaaccct 240

acttttactc gagattttgt ctccgccgcc gagtaccaag tgcctcccga tctacgcccc 300

aatccctaaa tggctacgga ggctacaacc gtacccaaat tccaggaacc tgatctccgg 360

caggtttctc agacaccgga tttcaaaccg gaaatcgctc acgatggtct taagttctgg 420

gcaatttatg attgctggtt cnattgctgg ctccgtccaa cacatggcga tgtttcccgt 480

cgataccaan cnggaaccat ntgnaaagcg cctcgancaa gttc 524

<210> 2160
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-C4

<400> 2160

cgcctgtcgg taggcgtccg naattcccaa ggtcgaccca cgcgtccgca aaaaaaaagc 60

aaaatcgcaa gagagacctt aaacgacatc gttttcagat gaggagacac caccaccgat 120

gccaaatcgg ctccgatagc gaaaccggat ccgaatccga ttccgatacc gacacgccga 180

tgcgatgcat ctcttgtcga gaagagtacc tccctcgcaa cgccgggacc tgcaaggaat 240

gctacgtcga agccggcgaa actgaagaag aactcaaacg cgagatcgat gacctcaaag 300

ctaaagttgc tttccttcgc ttatcttctt ctcttgatca tggaactagt tcaacctcta 360

gatccttcac tgatgttgtt ctcatcgcct ctgaagataa cgccggatct cctcctattc 420

ccgctcataa atccgttctg gtgagtcgtt ctccagtttt caaaagcaat gcttgagaat 480

gaaatggaag agagtctaan cggca 505

<210> 2161
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-C6

<400> 2161

acgcgtccga cagttctttg ttacaatttt ttttcctcaa attgtttttg aaagggtttt 60

attatgcggt taaacatcaa caaaatctct gttcttttat atatatatga acaaaaagag 120

atttaagaaa aaaaaataga tgatacctta agcaatacta tttaattgaa gtatgtttag 180

ttattcatat taaggatctt gttttcaatt atggtgaatt ttgagttaat tgaaatgata 240

tttgtgaata actttaatga agaatcttgt ttttattttg gtgaaatatg acagtaagtt 300

ggaatgagaa gagaagtttt tgagtcggtg agcaccaatg cttctaatga aagggttcac 360

gtggctccca aaatagcggc agaggaacaa gattatgagg agaaaggaat gcactgagga 420

gaattctctc tctcagaatc ataaatcntc taatgtaatc acagagaatg a 471

<210> 2162
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-C7

<400> 2162

ttcccgggtc gacccacgcg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnncagcacc tccgtcttct gattctatct acgaatcatt 120

cgttcaatgt ttctccgaca agacaaaatc tccacaagcc caaatcaccg acaatgtctt 180

ctctcggaca aacccttctt tctcctccgt ccttcgtgct tacattcgaa atggcaggtt 240

caacacttca tctacgccaa aaccagctat catcgtcact cctcgctccg atatccacgt 300

caagcgccgc cgtcacttgc tcaaaaagtt taaatttcct tctcaanatc cgaagtggtg 360

gccatgatta cgaaggtctc tcttacatct ctgataaaca ttttttatac tcgacatgtc 420

gaatctccgn tgatgtcnct gttgataanc gccgatcant cagcttggga tgtccggccg 480

gagcaactc 489

<210> 2163
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-D1

<400> 2163

ctgtccgtac gcntccgaaa ttcccaggtc gacccacgcg tccgattcag gaaaaagatt 60

tcatctttga gtttttcatt catctatcgg ttgtttccat tctcaggttt cagtcgaaaa 120

ttccctctct ttcttttcga tttgatctgg gtttcattgt acatagctcg atcttcaagt 180

ttcgtcatct gggtcttgta aagttttaga cttttagggt tgttttacnt gtgaaggttt 240

ctctcttttc taagggattc tctgggtaat tgatcgatta gggtttaaga ttttagcggt 300

gngggaaaag ctgtttggnt cganaattct atcntgatta acgtcacttg cancttttcgc 360

acaagttttg ggaattgtac tacgttttga ntgannanca tagagtnggg aagtgagttg 420

gggagtttcc ctgaactggg ctnatcaang gngggnngct aagtcgggcn gtanccccttg 480

gtggggtcan cgacct 496

<210> 2164
<211> 512
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-D3

<400> 2164

nccgtcagta ggctccgaaa ttcccaggtc gacccacgcg tccgcatgac gactcggaga 60

tctctaggct atggctacgt taactatgca actcctcaag atgcttccag ggcactgaat 120

gagctgaatt tcatggctct taatggaagg gctataanag ttatgtattc tgttcgtgat 180

ccaagtctcc gtaagagcgg ngttggtant atatttatta agaatcttga cnaatcaaat 240

gatcacaaag cacttcacga gacattttca gcctttggtc ccattctatc ttgcaaagtg 300

gccgttgatc cctctggtca gtcgaaaggc tatgggtttg tgcaagtacg acactgatga 360

agcagctcag ggagccattg ataaactgaa tggnatgctt cttaacgata agcaagttta 420

tgttgggacc ctttgttcac aagctgcaga gagatccttc gggtganaaa gttaagttca 480

ctaatgttta ngtcaaaaat ctctccgagt cc 512

<210> 2165
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-D7

<400> 2165

acgcgtccga aataaaaaag gtctaaactt tactcttaca tgcgccattg aactaacagg 60

gctaatggct gcagctcctt tactgctcca actacgattt ccacagttgc agagatatta 120

catccttcga attcaagttt tgggtattga tcgtgagaat tcaaggaaca tcttttcttc 180

ggtcagtatg tggcactcta agttagtgtt cgtctctcgg atcaaatttt cgaattactc 240

ttgcttagtt tctctgatta cttgtgtaga tgtgattacc caataagctg aaaacaaaag 300

gcgtgatttt gtgattactc tggcgtaata atgcctcaag tatgggtcaa cgggtcaaca 360

ctgcgagttc acggcggcgt cttacttctc gtggccgact tcaagcaggc taagcancgc 420

cgcggaggga nagagctnaa ctaagttcnc aaacttgcag aaagaggagg atga 474

<210> 2166
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-E11

<400> 2166

ttatttttt cccctaccaa attttcttcg aatttcagct cagatccctt ccttcttcca 60

gatcgatctt cagatctatt gtttttttaag aatgggtttc aagcgaacgt ttgacgctga 120

agatgttcaa gagctcaacg ttaagaatgg aagacagatt agttactgta ataagctggc 180

caaactagat gaaggagttc catatcgtct ttcactggag aagccaggtg tcgtangtaa 240

taataacacc ttgtttcttg cagaggggtt cacatgataa acttaagcag ttcgcttaat 300

gattatctgt ctttatcatt tagcaggata tgatataagt gatctctacg ggtataaatg 360

tgaggataac gttgacaang ggtttgaaga ccaatgcgcc tttccccttg gn 412

<210> 2167
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-F4

<400> 2167

tccgnaaatt cccaggtcga cccacgcgtc cgatttcttt cctttgccat atttataaaa 60

taaaaganag aggaaagaat tttcaataat tttcaacaag caaagttcat gatggggaat 120

aagcgaaatc tcggatttgt gatcttcttc tgggctctgg tggttgcagt agtagccacg 180

gccatcgagc atcgtcgcaa tgagaggact aaaggcgtca atggtcttga caagatcatc 240

atccgcgacc gtcgtggccg atctgctgag gtttacttgt atggaggtca agtcagttct 300

tggaaaaatg agaatggaga ggagttactt gttatgagta ncaaggctat attccagcct 360

ccaacaccga ttcgtggagg aattccagta ttgtttccgc aatacagtaa caccggtcca 420

cttccctcac atggatttgt aagacagagg ttctgggaag ttgagactan accacctcct 480

ttgccatcac ttnct 495

<210> 2168
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-F8

<400> 2168

gaantgttac gcctgccggt aacggtccga anattcccgg gctctctctt tcacttgcan 60

tgtgtcgctt tgctgccttc attctcattt cacacgaaga ttaaaaaaag ttggtctctt 120

tcctaattta gaanagtgat aaaccaatcc cagatccgag tctctctccc catctccttc 180

tttctctctt ttgaataaca cactgcggtt ttttgccttt gagatctgtc attgtctctt 240

ccanatctag aacctttact tgggttgtaa cagattcaaa tatctgtaac tagtgagaaa 300

tcatcaattt ttaaagctga aggtcttcan ttactagtct gcatccttta actcggaacg 360

ttgggtctcc gtttggcttt atctcaaata agaaggcaat gaaaggaaga tnaagatgga 420

cggcanaaga agcgggtgat tgctttggtt tgccgttgca gcggtagttc gtgntntcgt 480

anatctgttc nacgggctct tctgatc 507

<210> 2169
<211> 526
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-G1

<400> 2169

acgcctgtct gtaggcntcc gaaattccca ggtcgaccca cgcntccgga gagattcanc 60

tgcgttgggc aaaatcccag acgaagatca gtgattaagt cttttgataa cttgagccat 120

ggcaactggt aaaactgtga aagacgtctc gcctcatgac ttcgtcaagg cttatgcttc 180

tcatctcaag cgatctggca agatcgagct tcccacatgg acagacattg tgaagaccgg 240

aaagttgaag gagcttgcac catatgatcc tgattggtac tacatcagag ctgcatctat 300

ggcaaggaag gtttacctga ggggaggact tggtgttggt gctttccgta gaatctaatg 360

gtgggnagca agaggaacng tagtcgccca cctcacnttt gcaaaagcag tgggtggnat 420

tgcccgtcac atcctccaac aagctgggag acagtgaaca ttngttganc tcgacaacaa 480

aaggaggaaa gaaggatcac ttccanttgg ccaaanggga atttgg 526

<210> 2170
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-G11

<400> 2170

gaaataaaaa gagagagaat gttagagaga caaactctga gagacaaaac aagagaaaat 60

cgctcgtcgt cggtattcaa gcgtctgtga ctccgataaa gcctangact agcgaggacg 120

gcgagagaga gagagagaga gctttggagt tgtcgtatct ctaaatcgga ggcaatttga 180

gtgagataaa gacaaaggaa ggaatcaagt ggactaccga agcgagtttt gagctttttc 240

anagacggat ttggagattt cttgttgata tcgtctgcnt agaggcttat ttggtaccan 300

atganacaga tctgangctt cggaaggtat gggcganttc ggaggtttca atgaaaggta 360

atccgtggga ggagataact tctcctcctc tngggt 396

<210> 2171
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-G12

<400> 2171

acgcgtccgc ccacgcgtcc gaattgtctc acccgagctt cctctccagc tagggtttgt 60

ttgtttgatt gaagaaagaa aacaagaatg gtgtatttca atttcaatag gattaanacg 120

aagaagactc taattggatt tggattggga cagatcctct cgcttctctc gacttctctt 180

agctttacat cgtctgagat cgctaggaaa agattttagc ttttttttt ttcaaaccat 240

cccatttta aanattctca tgaacntaca aaatttgaaa tctttannag ggantaatgc 300

tccaacatca caagtcgttt ctgggttatg tgtgactggc antngtctag gcgantatga 360

gaatgganca ntgagngttt cangtannna atntttctaa gcgagtgcca aganatttgt 420

aaagccag 428

<210> 2172
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-G2

<400> 2172

cacgcntccg caaatactga aaataaaaag aatgaagaga gaaatctacg gtggtgggtg 60

attcgccgga gttcaatttc gtagctagat ttctcctcct tttccccccg acgagctgtg 120

cgagagaggg aggggaatca tgcagaaacg gnnaacggtg aaggaatcta cgaagataag 180

aaatggtaaa ggtatggatt ccggcgaaaa gaacagatct gagaagagat tgatgaagtt 240

cgaggagtta cctaggtatt tgaaagataa cgagttcata cacaatcatt atcgatgtga 300

gtggncaatc anagaaactt tcctcagcgc tttctcatgg cacantgaga ctctcaacat 360

ctggacgcat ttgtgtggga tttgcgatat ttacttggnt gatnnnntgt gaagttcaat 420

ggagacgaca ggcgccttgg cctccccggc tttgttaacc ttn 463

<210> 2173
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-C3

<400> 2173

tacgccgtcc gaaattcccn aggtcgaccc acgcgtccgc agagattgcc tcaggcgttg 60

actacgcttg taagtcaata tccaagagga agttgatctc taaagaagat gttgaggatg 120

ttagaaggga gattcagata atgcatcatt tagctggtca cggtagtatc gtgacgatta 180

aaggagctta tgaggactct ttgtatgttc acattgttat ggagctttgt gctggaggtg 240

aattgtttga taggattatt cagagaggac attatagtga gaggaaagct gctgagctga 300

ctaagatcat tgtcggtgtt gttgaagcgt gtcattcgct tggtgtgatg cataagagac 360

ttgaagcctg agaatttctt attggttaat aaggatgatg atttctctct caaggcnatt 420

gattttgggc tatctgtctt tttcaaanca aggtcaanta ttcactgatg ttgttgggaa 480

gtccataatt atgtttgccc ccgaagtttt t 511

<210> 2174
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-H9

<400> 2174

ntgttaccct gcctgtaccg ggtccgaaaa ttcccgggtc gacccacgcg tccgcccacg 60

cgtccgcgga cgcgtgggtg ccattgaccc taagactaag aagattctcc agctcttgcg 120

tttgagacag attttcaatg gtgttttcct taaagtcaac aaggctacga tgaacatgct 180

tcgccgtgtt gagccctatg tcacttacgg attccctaac ttgaagagtg tcaaggaatt 240

gatctacaag agaggttacg gaaagcttaa ccaccagagg atagctttga ctgacaactc 300

tattgtagag caggctcttg gaaagcatgg tatcatttgc actgaggatt tgatccacga 360

ngattctaac agtaggacct catttcaagg aagccaacaa cttcctttgg ncattccaag 420

cttaangnac cactaggtgg gcctcaagaa gaanagaaat cactacngtg gaanggtggg 480

tgatgcccgg 490

<210> 2175
<211> 509
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-057-Q1-E1-C8

<400> 2175

cctgnccgta ccggtccgga attcccgggt cgacccacgc gtccgcgcgt gggcttttgg 60

tggcatgatc ttcatccttg tctactgcac cgccggtatc tcaggtggtc acataaaccc 120

tgcggtgacg tttggtttgt tcttagcccg gaaggtatcg ctgattaggg cggtgcttta 180

catggtggct cagtgtttgg gtgctatttg tggagttggt ttcgtcaaag cctttcaaag 240

ctcttactat gatcgttacg gtggaggagc caactctcta gcagacggct acaacacagg 300

caccggacta gccgcagaga tcattgnaac attcgttctc gtctacacaa gtcttctccg 360

ctactgatcc caaacgtaac gcctagagac tcccacgttc cggttttggc gccacttccg 420

atttgngttt gccngtgntt anggtacatt tggccactan ttcccattac cgggaaaccg 480

gnaatccanc ccnggccaag gagttttcg 509

<210> 2176
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-057-Q1-E1-F12

<400> 2176

acgcctgccn gtaccggtcc naaaattcnc gggtccaccc acgcgtccgt gttcaggcgc 60

cgcaggagca taagcttccg cccaggccaa ngaggaacaa caagcggctt gctgcttcgg 120

atccggatcc ggatcctatt gagtcggttc aggagaaacc aaagcgcacg cgtggatcgt 180

cgaagcaaga ggaaaatgaa ctgcccaaga gtactagggc ttcgaggaaa aagaatctgg 240

acgatatcnc cgataaagaa gaggaattgg atgtggaaat tgagaaggtg gtcaaagcta 300

gggttgggag gcctcggaag aacgcaggca gtgcaattgc gaatggaang aagaanttgt 360

ggaggagaaa aaaanggttg ggangccccg gaagaacgca agtagtgcaa ttacgggagg 420

aagaagaact tgtggngggn gaaanaaggg nanctctaan ggctccggag aggtta 476

<210> 2177
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-057-Q1-E1-G10

<400> 2177

tacgcctgcc cgtaccggtc caaaattcnc gggnccaccc acgcgtccga atganagaaa 60

gatcattang tttctgaggg gataaccatt ttttttttct tcttaaaaag ttttttttt 120

tgtcaattgg tcntcttctt cctcatccgc tcgcttanat ttaatttaat aataataaaa 180

atcggtgttc atttttatat aaaagtataa attttgtgtt tggntgatcc anccgtagtc 240

gtagtnaatc tacaagctct gaaattccac gcccacatct cctccgtcct cttgagatcc 300

ttctccgtca ttcattttct tgctcaactt gagttgcttc caacatcttg caagattgtc 360

nttgagttca ntcaaggtct tggaggaaaa gcacgctttt aaagctggtg tgaaacttgc 420

gccgttccng tgaaggaanc gaccgtttg 449

<210> 2178
<211> 523
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-057-Q1-E1-G8

<400> 2178

gcaactgctt ccctggccta acggtccgga attcccgggt cgacccacgc gtccgcttca 60

ttttcttcga atccaaattt ctgtgtctgc ttttgattca cagagaagga gcaggaaana 120

tgttggatat caatctattt cgtgaagaga aaggtaacaa tccggagatt atccgagaat 180

cgcaacgccg gagatttgcc agcgttgaaa tcgtcgatga gatcattaag ctggacaagg 240

aatggcgtca gcgtcaattt gaagttgata gcttcagaaa ggagttcaac aagctcaata 300

agcaagtggc gcagctcaaa attaanaaag aagatgcgag tgagattatt caacanactg 360

agaaaaacan acaagattct actgcaaagg angctgaagt tcgtgaagct tatgctgctt 420

tgaaagccaa gttggagcaa gttggtaatt tggtccatga ttctgttcca gttgataagg 480

acngaagnta atnaatccnt gtggattnaa ctgtggggtg aaa 523

<210> 2179
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-057-Q1-E1-H12

<400> 2179

ancacgcgtc cgcacacgcg tccggacaaa ccagattatc catacctaaa gaggcttttc 60

agggatctct ttattcgaga aggttatcag tttgactatg tatttgattg gacaatcttg 120

acgtatccac agtttagttc gggctccagc tctagctcca agccaagatc aagcctgaga 180

ccaggctatg aancctccag taccaattgc cgaaagacca gatanacctt cagctggagc 240

tgggcaagac agtcgagata gattctcacg tgctttaaga gngcatatgc tagaagaaat 300

ggctcaagga anccngtgtg gtacaaggct ggatnggatc tagaccaagg aacctcagan 360

gnatggtgtt agcatccgtc aanaggatnc cagtcaccag ananccaang agaagagtcg 420

agangnccaa atctcttcaa naaggaaaag gcaag 455

<210> 2180
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-057-Q1-E1-H8

<400> 2180

acgcgtccga aanactagcc gccttantcg tcttcttcgt tctctanttt tttcctcagt 60

ctctgttcnt agatcccttg tantttccaa atcttccgan aaaaatgtcn ggtanaggag 120

aaggaccagc tatcggtatc gatcttggta ccacttacnc ttgcgtcgga ntatggcaac 180

acgaccgtgt tgagatcatt gctaatgatc aangaaacag aaccacgcca tcttacgttg 240

ctttcaccga ctccgagagg ttgatcggtg acgcagctaa gaatcaggtc gccatgaacc 300

ccgttaacac cgttttcgac gctaagaggt tgatcggtcg tcgtttcnct gacagctctg 360

ttcagaagtg acatgaaatt gtgggcattc aagattcang ccgggacctg ccgataagcc 420

aatgatccaa ggtccaatan aaagggtgnc ggagaaaaca gttcgcaagc tggagggana 480

attc 484

<210> 2181
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-A6

<400> 2181

acgcgtccgc tttctcctcc gacacactcc aaaactcata aatctatctg atgcgaattt 60

gactaactct ttcgtaattc aggatcttac tacaaatctt taactcacca atcttcttct 120

tattcaaaga ttagagagaa aatggacaac gagctgttta tgancacaga gtttccacca 180

ccgccggaga tggcgacgca tttcgaacac caacagtctt cttcatcggc catgatgctt 240

aattgggctt taatggatcc aaatccgcat caagattctt ccttttttatg ggaaagagtc 300

aacggaacan caacaacaac aaagcatctt tgantctgct ttaagctcat tagtctcatc 360

ancgacgccg tcaaattcna ncttctccgg gcggtggtgg tgacggtttt cgcancagng 420

aactcatcgg naagcttggg aanacatcgg ta 452

<210> 2182
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-A8

<400> 2182

ntgnttacgc ctgcaggtan cggtccgnaa attcccgggt cgacccacgc gtccggtggn 60

tgttccttga aatccgattc tgattccttc cttttggatc cgattctatc tccaccttca 120

agcacaatat tcgactcggt actctctctt tcttcttctt attgcaaaaa gattctcttt 180

ttatctgttt tgtggatata cagattctgg ataaaaacaa tcatcttttt tctctcaaaa 240

atctctgctt aagaactggg attcttcaaa agctcttctc ttgtctgatt tcttctgaat 300

ttcccctcta agtctctcca attcttctcc attagctata aagtcgattc ctttatcacc 360

gttctgaaga atttggtcga aagttttggc ctttagtanc caattttcaa tcctgncgat 420

aactganttg aaaagggttc caaaagttac atcacctgaa ancaacagtg cttttgattg 480

tgttggtggt ttggagtgct tgataagttt aatca 515

<210> 2183
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-A9

<400> 2183

canaacggtc cagcctcccg ggtcgaccna cgcgtccgat ttgttttgct ttgtcagtca 60

acggttgacc cattgactcg cccaccatcc atgacttctt cagcttaagt tatgcactca 120

tcttttatct ccttcttaaa aaaatctgat gaactgtaac gttttgtttc ttctctctgt 180

tctcgtctct gttacggctg gagttacggc ggcgtaccat cctaccgatg tctttctctt 240

caactgcggc gatacttcca acaacgtcga caacagtggc cggaactgga cggtggaaag 300

tcgtcaaatt ctgtcgtcga atttagtcaa cgcttcattc acttcagaag cgtcatacca 360

aaaagcaggg gtctctcggg attccgtaca tgaaagctcg aatattccga tctgagttca 420

cctacangtt tcccagtcac tcccggttcg atatttcccg gggta 465

<210> 2184
<211> 519
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-B7

<400> 2184

actgtttacg cctgccaggt ancggtccga anattcccgg gtcgacccac gcgtccgaga 60

ggttcctaag agagtgcctc cggatagtcc tttggctcct caatggtaca cattggaatc 120

tgagaaatca ccggggaatg acgtcatgct cgctgtttgg ctcgggactc aagctgatga 180

agcgtttcaa gaagcttggc aatctgattc cggtgggttg attccggaga cgagatccaa 240

agtttactta tcttcgaagc tttggtattt gcgtctaacg gtcatacaaa cccaagattt 300

gcagctaggt ttgggatccg aagctaagtc aaagatcccc accactgagc tttatgtgaa 360

agctcagctt ggacctcaag ttttcaaaac ggctacgact tcgattgggc cgtcggcttc 420

ttccgtccgg atccggtaac ccgacttgga acgaggatct agttttcgta ncttccgagc 480

cgtttgaagc cgttcttgat agtgactgtg gaagatata 519

<210> 2185
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-B8

<400> 2185

ntgtttacgc ctgccaggta acggtccgaa nattcccggg tcgacccacg cgtccgccca 60

cgcgtccggt cattttaat aggaaaataa gacatagtta tctacaatat aaagcctatt 120

cggtataata acagagtaga atctaacaac cccaaagctt tcatagattg ggttttgtag 180

ggatatttca gtttttactg gaaggatcat gaagaacatc aacaatggct tcttcctctg 240

catgctttta ctcctctggt gttttgtgca ttcggggatt tcaattgatc ctttctcccc 300

aagcgactca ctcaaaacag agtgtgtaat gaagcctcca cgaagcagtg aaacgaaagg 360

attattacaa tttagccgct ctgtcgaaga tgactctgat gaanaatgga aaatagatgg 420

aagtgngatc cataagagan atgacacaga gaattcagct tcaccaacga agacatttac 480

aagcttntct gcttgggtga 500

<210> 2186
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-058-Q1-E1-B9

<400> 2186

acgcgtccgc ttcactccaa gtttatgagg agatctagag agataatcat atagagaaag 60

agagatctcc agagaaaatc cattgaaggg aaaaaaacag tctgtctttc ataattgctc 120

tttctataaa tcttctctct tgtgttctta cctttcttct aaaaccattc tctctctctt 180

taacacttca tcactcttta cggaaaattt cttattttca ccacctgagc catctctatt 240

ttcgtcaana cttctcaact tttgtgccaa aacgtcattt cttctgaggg aataaacaca 300

anagaacaat tttcccggaa aatcatggag atttcnactg ctctaatgat tctttcggnc 360

atcacggggg tatttctnat ggctcacatt c 391

<210> 2187
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-056-Q1-E1-H4

<400> 2187

ganccacgcg tccgcaacan ttanggtttc agangatcgg ctgattttca catccacaag 60

tatggcgact caaatcagca agaagagaaa gtttgtagcg gatggtgtat tctacagctg 120

aattgaatga ggttctcaca agagagctag canaggatgg ttactctggt gttgaggtta 180

gggttactcc antgangact gagattatca tcanagctac tcgtactcaa aatgttcttg 240

gtgagaaggg gaggagaatt agggaattga catctcttgt cnacaanaga ttcaangttt 300

ccagttgaca gtgtntgagc tctatgctga caaggttaan aacagaggtc tctggtgcca 360

nttgctcang ctgagtctcc acgtnacaaa gcttctcngg tggtcgttcc tgttcgcagg 420

gcccnttann ggtggttttg agnatttgtt ag 452

<210> 2188

<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-C4

<400> 2188

catctctcat tcaaacccac aagtccgatc tcgcgatcca aacaccatgg gaagaggttg 60

aagaagaagt gagacgaatc gtcgaacaag ttaaagagct tcatgactct tccacatcct 120

tcgtctcttc ttcttctcaa gaagagcttt ctctccgtaa cagagcctcc gtcgttgact 180

catcaatccg ccgtcttcat tctactcttg cctctgacaa acatctcgat cccaagcttt 240

tcgaaaagct agaagaggat ntggaacgag ctagatgcat gcttgcagat ggagacacnt 300

catcgtttcn tccanctaaa cctcaaagga acgttttgtg agaaatgttt ttgggacctg 360

ttgaangtta ggaagcttca cgaaanaag 389

<210> 2189
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-C8

<400> 2189

aaattgaaga caaaaatgtc tcgcagatcg ctaactctcc tcaagaatct agctagaaac 60

gcgaatggat caggtattca aacccgatcc gtgacttaca tgcccagacc cggtgacgga 120

gcaccacgcg cagtgacgct gatccccgga gatggaatcg gtcctctggt gacgaacgcc 180

gtggaacagg tgatggaagc gatgcacgct ccgatcttct tcgagaagta cgatgttcac 240

ggagaaatga gccgtgtgcc gccggaagtg atggagtcga taaggaagaa taaggtttgt 300

ttgaaaggtg ggcttaagac tcctgttggt ggtggtgtta agttctctta acgtccagct 360

taggaaagag cttgacctcn ttgcttctcc tggtcaactg ttttaatttg cctggtttac 420

ctact 425

<210> 2190
<211> 488
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-D4

<400> 2190

gttacccttc cggtagccgt ccganaattc angggtcgac ccacgcgtcc gggaagttgt 60

gtgagagaaa gaaaaagccc agagagaaga gagagagacc cacaacacan acacaaagta 120

gacgaagaag acgacgacga aacagctctc ttcttctctc ctctctctca gcatcttctg 180

ctggtttggt ctttcactaa agtctcggtg tgcacctaaa tgtgcttgat ccaaggtcgt 240

tataattctg tgtacagagc caatgccata tatagaaatg aagagcaaga taagcaaggt 300

tcttgggtgt ctgtaagaaa cataaagcaa gtacaaagaa attcttgctc ctttgtccaa 360

aatatcaagg agacttgggn aaagcataac cgcagctatt actacttgcc acgaacgaat 420

gaagaaacag cacctggggt ttggataact ttttctccgg gagaagtgaa aactaaatga 480

ngcccgct 488

<210> 2191
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-D8

<400> 2191

tcacaagaga gagatagaga gagaaaaagg ctctgctttc tacattattt acgattatac 60

actttccaac atggcggcct ctgtagataa tcgccaatac gctcgtctcg agccaggttt 120

gaacggcgtg gttcgttttt acaaacctcc cgttccaggc cggtccgatt cccctaaggc 180

gcaccagaac caaaccacca accaaaccgt gttcttgaaa ccagccaagg ttcatgacga 240

tgacgaagac gtgtcgagcg aagacganga acgangacac acaacaagca acgccgtgta 300

ctacaaggag atgatangaa aatccaaang ccgagcttgg aaccgtccgt tttggacccg 360

agggacgaat acacggcttg ataactggga ttngagccgt ancccttcca tgggtacgtt 420

c 421

<210> 2192

<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-E1

<400> 2192

acccttcngg tagccgtccg aaattcaagg gtcgacccac ncgtccgaga aattctatta 60

tcaattccta tcatttgtta agaaaaagag ttagaagtat taataatctt acaatattta 120

tagataagat aacaacaata tgaagcattc tcacgttttg cttcttctat ttgttcaagt 180

cattgtcctt ttgcctctcc tttgtctatc cgacgatttt gttaactcta gagctactta 240

ttatggcagc cccgattgca aagcaaatcc tcggggacat tgtgggtatg gagaatttgg 300

nagagatatc aataacggtg aagtgantgg tgtttcatgg gcgactatgg aacaatggaa 360

ctggctgtgg gtgctttgtt accanggntg aggtgccagg atagcancac actgccaant 420

gaggaaagga tanacgtnng tggctacggg actccnggng aaaggagatg gcacgggcct 480

tcatccttaa g 491

<210> 2193
<211> 374
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-E4

<400> 2193

acgcgtccgt gaaaccctaa ccacaacaat cgccgccgtc tctagaaata tccatccacc 60

tacttcggct ttgtttatca gattttgatg aaaccangat cgggtcttcc tctagatccg 120

ttctaggttt tctanttcnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnagac atgtctctgt ttctgaaaga 240

cgattcgatt canattcgcg aagtctggaa ccgataacct tcaagaagaa atgggatctg 300

atccgagatg tcgtcgacga cgtcccttac gtcgccatgg gacactgagt tccccggcat 360

cgtcggtccg anct 374

<210> 2194

<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-F10

<400> 2194

aaaacccaaa tcgaaaaatc gattctttag tcagaaaaaa tgaggaccaa atctccatct 60

tctcttaatc tcaaggtcat attcataggt tcctcaatct tgatcttgat catcatctac 120

ttagcaagat caaacatctc ttcttcctct tcaaagccaa tctccaaanc aaatctctcc 180

caagaagaag aagaaactca gcataaacaa gaaggatgtc caacaacaca acaatgcaca 240

aagatgccac tttctttatc cgatgcattg ggttcattac gtcantagta acgtcactcc 300

acaacngaca ttttgatgaa gtcnctgtct caagngagaa gtcttgggac aangaagtcc 360

ncncgtggta aacttccntg ggcgttgggc ttaaggtcnc gacagtt 407

<210> 2195
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-F12

<400> 2195

ctgtttacgc cttncagcan gcctgtaacg gtccaanaat tcccgggant cccatattgt 60

gatnctccaa acggacgggt tgtgggaatc agtggagtct ctttttgagt ttacgctgaa 120

tcatctggga gattgacaaa gaagagttta agacagtgat gagtctgatg cgatctcagc 180

atagacaagg agttggccac agagatggcc ttcgaacagg gttacatatg accggttctg 240

tcgaggatgg aggattggta gaatacttct ttgggaaaga tggcaagtca aaaactgaaa 300

cacgacaaat tcactaagtt tatgaaagat ctaactgaag agatgctgag gctgganttt 360

gcacattang acnataancn aangaggaag tatatcggcc aaagattttg canntgtcna 420

ttggntgcag cnggctgatg caaggcattn tgagc 455

<210> 2196
<211> 433
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-F2

<400> 2196

gtggagagat tgatttaaga tacagagttt gnatctatct tgaggagaac acgaagaagc 60

tcagggaata tattgcagtt gcttcaaggg attcntgcan ggattgcttc tgagtangaa 120

agctctgata acaattggga taantctcga gagagggata gagttataat gattaatccg 180

tataaccaat cgctagttgt tccttcggat cagaatcaga atcatccttc attgacttca 240

cttggngatt acttcattgg acctggttta gatcttttgc ttcagcantt ggctgagant 300

gntcnnaata ggcaacggac tccacctgct cgtaaagaan ctgttgaagc tttaccaacg 360

gttaanataa tnggaagctt tgcaatgttc tgttttgttt ggatcaantt tgagaaaagg 420

tacgggaanc cta 433

<210> 2197
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-F5

<400> 2197

ctgttncgcc tgccggtaac ggtccaaaat tcccgggtcg acccacgcgt ccggcagctt 60

cctgttcaac gaatgctcga tttcgacttt ctctgtggac gtgaaacgcc ttctgttgct 120

ggaatcataa atcctggttc tgaaggtttt caaaagctct ttttcgggca ggaggaaatc 180

gctatccctg ttcatgccgc cattgaggca gcttgtgctg cgcatccaac agcggatgta 240

ttcatcaact ttgcatcttt taggagtgct gctgcttcat ccatggctgc tttgaagcag 300

ccgactatta aagttgtggc aattatagct gaaggtgttc cagaatcaga cactaancag 360

ctgattgcgt atgctccgtg caaacaataa ggttgttatt ggaccggcta cngttggagg 420

tattcaagct ggagccttta agattggtga tactgcagga acaatttgat aacattatcc 480

<210> 2198
<211> 440
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-F9

<400> 2198

acgcgtccgc ccacgcgtcc ggttgttggt gaacctgctc ttcctagaac tgagattgtg 60

aggcaattgt gggcttatat aaggaagaat aaccttcaag acccgagtaa caagcggaag 120

atcatctgtg atgatgcgtt gcgtgtggtt tttgagactg attgcactga catgttcaag 180

atgaataagt tgcttgctaa gcatattctc ccgcttgatc catcaaagga ctctggtcaa 240

gcaaaaaagg caaaaactga ggtggagact aagactgaga ccacccgagn ctattagttc 300

aactgctatt aagttcaact gttacattat ctgagccact ttggtaangt tccttggcac 360

tggtgaagaa ngganatggn aagacganag angattaant cgcccgtggt ttggggaata 420

cnttagagct caacaatttt 440

<210> 2199
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-G2

<400> 2199

acgccggccg gtagccgtcc anaattcang ggtcgaccca cgcgtccgca aaaacacaca 60

aatggaagga agagtcaacg ctctgtcaaa cataaacgat ctcgaacttc acaatttctt 120

ggtcgatcca aacttcgatc agttcataaa cctcataaga ggagatcatc aaaccattga 180

cgaaaaccca gttcttgatt tcgatcttgg nccattacaa aacagcccct gtttcataga 240

cgagaaccag ttcatcccaa cacctgtcga tgacctcttc gacgaattgc ctgacttaga 300

ctccaacgtt gctgaatcat tccgtagctt cgacggtgat agtgttanag ccggtggtga 360

agaagatgaa gaaagattac aacnacggtg atgattcttc agccaactac tacgaataat 420

gattgggacc ccgtnaagac gaagactgat ncggtccaag gacnttgatc tctgagaaga 480

angaaag 487

<210> 2200

<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-G7

<400> 2200

aattcttcga atctgaaatc cgatcgggct cgcttgttct gatttcgtga gggtgaacat 60

ggatggaaac aaagacgatg cgttgaagtg cttgaaaatc tgcaaaagtg ctatggaagc 120

tggagatcga cctcgcgctt tgaaattcct ggctaaagct cgtcgtcttg atccaaatct 180

cccgatcgat gatctcgtat ctgagcttaa caacaacaaa tcagacgaac caggatctgc 240

aaaatcgcct ggatctgcag cagcaaagga ttcttccaat tcttcagatc ggccttcttt 300

acgtcaacgt ggatcgtcaa caangtcatc gtcttcttcg atgtccnaca ctgaagaaca 360

ggntctcaat cgtngagaan anatanaatc tagaaaggat tantacgaag atcttangtc 420

ctg 423

<210> 2201
<211> 493
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-C3

<400> 2201

ttacgccttc ccgtagccgt ccnaaaattc aagggtcgac ccacgcgtcc gtttcaagcg 60

aaggaacggt gggaggaaca agcacaacag aggacacgtc aacccaatca gatgctccaa 120

ctgcggcaaa tgctgcccta angacaaggc cattaagagg ttcattgtga ggaacattgt 180

ggagcaggct gctattagag atgttcagga agctagcgtc tatgagggat acacattgcc 240

gaagctatat gcaaagacgc aatactgtgt ctcctgtgct atccactctc acgtcgttag 300

agtccgttcc cgcaccaacc gtagggttcg tactcctcct ccacgtttca ccaagacgca 360

aggaggatac tcccaagccc tgggacaagc cangacangc ccctcgtcca gctgggccct 420

ggagcttgca gctgcaaccg cgtgtctgaa gcctgcaatc ancctaaat tgtagtttca 480

ttttttcaag gat 493

<210> 2202
<211> 371
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E2-D12

<400> 2202

acctgaatct caccgtgagg atgaagttac gagttttgct gtggtcaatc caagtgggag 60

ggatctagag aatggtgtga acagtgaaag tcaagcttat actattgcaa ctggtcaagc 120

tgatggctct ttaaaacttt ggagaantag ttttcaggaa agttcaacac cttccggtct 180

gtgggagcta gttggcatgc ttacggttgg ccaaaatcct gtcagtgcta natctctgac 240

tgattcggga cacangatag cagccctctg tacagagagt cattcaanag ctgcccgcgc 300

agttagtana tngganattg tacaccttat agattcaggg gttttcatac nagaggatga 360

ggtacatntt g 371

<210> 2203
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E2-E6

<400> 2203

cgcgtccnca cagacttctg ctncatttcc gtcttttccg ctaggtttcc gtctctgttt 60

tttcttgcat tttccccaga attccttcac attctctcct tttcctcttt ttaattcctc 120

accacctcaa attcttcata aacaaatcca cttctgcatg gttgggagaa tctgttagag 180

aatttttgtt gttgttgggt tcagatttgg aaaatttcct ttttttcgag tttcttctga 240

attattcatc gtggagattc tcggatcggg aagggctgcg agaggtggtt ttcacggcgg 300

ggatagattc atcttctgtc ttctcctgag ggggtagccg aggctccggc ctcngcggtt 360

tttaaanccc gacctttaaa aattnctggg gaa 393

<210> 2204
<211> 403
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E2-E8

<400> 2204

cagagaggag atttgagatt ttgggtttca atggcggttt caagtgcttt cgttggttgt 60

ccaaagcttg agactttatt gaatcaccat aannnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncgaa gaacaataga 180

accagacgag gtttgatcca aaaagctcgt tgtgagctct ctgcttcttc tgattctgcg 240

tctaatgcag ctagcatctc tgctcttgaa caactcaaga actctgcagc tgatcgatat 300

acaaaggaaa gaagcagtat tgttgtgatt ggacttaagt attcacacaa gctcctgttg 360

agaagcgtga agaagcttgc tatacctgaa nctgaatggc caa 403

<210> 2205
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E2-F12

<400> 2205

acgcgtccgg ttttttgta ataccatcaa tgtgtgttta aagaaaggcc tcttgtgtat 60

ctgcacgaca tctcaaacaa aaccaatcaa taaaaacaag aaacaatctt ctttctcatg 120

gacagatctc aagaacacta tgccaatggt gaccagaact tagaagcaaa ccttatagat 180

catgaggtgg taactgaatc atcatcatca gctgtgcctc aaaccgagaa ctataaaagg 240

tggcttcgtg tctccatana ccgtaatctt tgtcctcttt tgccagccac tanctacaan 300

tctgggtaga ttgtactatg aaaatggagg aantagcana tangtggtaa cacttcatca 360

gctcaattgg gcttccctgt acngggttct gttcggcttc tgttcgctna agc 413

<210> 2206
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E2-F6

<400> 2206

tttcttcctc acggtcttct tcttgcccga gtccccaagg tggctcgtga gcaaaggtcg 60

aatgcttgaa cgcaaagcgg gttcttcaga gactgcgtgg tcgcgaagat gtgtctggtg 120

agatggcttt gttggttgag ggtcttgnaa ttggaggtga aacaaccata tgaggaatat 180

ataattggtc ccgcggatga agttactgat gatcatgata tagctgtgga taaggatcaa 240

attaagttat atggtgcaga agaagggcng aagttgggtt gctaggccag tcaaaggang 300

aagcactatg agtgttttgt ctcgccatgg gaagtacaat gagcaggaag caaggctcaa 360

tgattgatcc tcctgtcaca actgtntggg gaag 394

<210> 2207
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E2-G9

<400> 2207

cacaggtcng gaactcgcgg gtcgacccac gcctcnncnc tnagtcnnna nacttgttgt 60

cggagatgtg ttcagagaac cagaaatgtc aaagcttcta tgcattatgg tgggagatgg 120

ggttcgaatt acaggaatgg ctgttgtcac tattgttttc gctgcacttg gattcatgtc 180

gcctgcctca agaggaatgc tactaaccgg gatgattatt ctctatcttt tcttgggtat 240

tgttgctggg tacgctggtg ttcggctctg gagaactgtc aaggggactt cacaaggatg 300

gagatcactt tcctggtcca ttgcatgctt cttcccgggt attgcttttg ttatacncac 360

ngtgttnaac ttccttcnct ggagcagcat cagtactggn gccatcncaa nctcnttgta 420

tttnaactct tgggnctccg gttctg 446

<210> 2208
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E2-H12

<400> 2208

tagcttccat ggaaaccaaa ttcagtgact ttacctgaaa ttaatctttt gaatcccaag 60

caattgactg cctcgagttc tcagtatcgt agaactcgaa actggagaat tagaagttcg 120

tcggaagata atgtancaat ttcgagtgac ggcggagatt tgaagaattc tctgtccggt 180

attgtgggaa atcaagtgga ggagctattg agcagataat gagaacaaag gtttgcttga 240

tggtctggaa aaagcttcgt tgagagtgga gattgcgaan agagagctcg angatntaga 300

gagacnngaa attgaggcga aattgcnaca gggattatan nantcagctc ngaatcaatg 360

aaccgccana gganttgccg naaattgccc aagcagggag natngacngc agcaaaggtt 420

caatngggtt g 431

<210> 2209
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E2-H5

<400> 2209

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gatacaacag ataccaatat gatgcagaga gttaattctt cttctggtac atcgtcttct 120

tcgatcccta aacacaatct tcacttgaat cctgctctta tccgctctca ccatcacttc 180

cgtcaccctt tcaccggagc tcctccaccg ccgattccac ccatttctcc ttactctcag 240

atcccggcga ctttacaacc tatgacattc tcgctctatg tcgcaaccgt cttctttctt 300

ctcctttgat tcattgccgc cgttaaatcc ttctgctccg tcggtttcgg tgtcggtgga 360

ggataaaacg gtgcccggat ttagtccttt gttgnccttc g 401

<210> 2210
<211> 370
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E2-H7

<400> 2210

tcnctctcag cacgatgcna agaatcgagc atttgtgtcg ctctctggaa cgtgtgtctt 60

catcgggaat ataaccataa tctccacgag ctgcttgaat gcgtaccctt cgttccctaa 120

tgttggcggc ggctctagca gtggctttgg ncgtgactgg ttttgcagca tcgccgttac 180

cttcggcnta ngcgaaatac gcagctggtc cgaccaagat tcttccttta caaanggctt 240

ttcctctaga ccaagctaat ggagctgagt gaacttanag cgcgtgatcg tgtcagacac 300

gcgcgaatct tactcggcgg tggtcgtcan agcnctgttg gcggcntcgt cgacttccca 360

gttcanggct 370

<210> 2211
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-A2

<400> 2211

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tcttactctt cttcactcta aatcccttct ctgaacctct tcgtttgctg tatgtgttga 120

tttcacttct ctctgagcaa gaagctttcg cgtgagagaa tgacgaaggt ctatggaact 180

ggcacgtacg acttcaagcg ccacagagtg gcggagtatc cattggagtt acctagccat 240

cctgctgaga agcctctaga gtcaaagcct ggatctaatt tgccgagctc catcacttta 300

tcggagattc agcaagatag gttaacgaaa atcgctgang agagctggat taagactgga 360

ggtaagctcc ctgagaaacc gttcgattcg gaggttgtga aggagattta tgtgacggag 420

cttaaggtaa ctaatggtcg taaacctgtt tcacttcaac gagttatgaa tcctgggaag 480

tgaan 485

<210> 2212
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-A3

<400> 2212

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ttcgatttct ctgcaaagac acaacacaaa aagtgctttt tttaatcaga tattttctgg 120

gcttcacttt aactctcttc gtgcttggtt ttccgatctt agtcgttact aattgagtcg 180

gagactgttc atttcctgat tctgaagaaa gttttggaga aggagaagat gtcaactctg 240

cgagtgagct agggtttagt gtgttttccg atttttgagc tcttggggat tgttgttttc 300

tcttaaagag tcgattttga atggcggtgg agtatgtatg ttgcagccca aacttcttta 360

tacatatagc tgtgattgtg tttcttgtct tgttcgctgg actcatgtcc gggcttaaca 420

ttgggtccta ngtccttgag tcncgttgat cttgaaagtt ctcgctaaaa ccc 473

<210> 2213
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-A9

<400> 2213

aggtctgttt caatctgacg gctggatttt gtcacagacc gccgccaagt ctgaagaggg 60

aagagaagtg gagaagatgg tgttgagtgc tgtgttttgg aagaaggttc agtatgtttt 120

gaaatcggtt gatccggtga tgcaggtgat tcacatgatc aatgatggtg gcgatagact 180

atctatgcca tatgcttacg gttacatgtg ctgtgcgaaa atggcgatca agtctattca 240

tagcgatgat gcaaggaaat acggaccgtt ttggcgggtg atagaatacc gttggaaccc 300

attgtttcat catccctctc ctatgttggc tgcataattt ccttcaaccc gggcaataca 360

aantaaccgt ccctgaattt tannggcgtc ctggaaggtt ttnccccttgg agtttaacca 420

aatgcaatgg ntt 433

<210> 2214
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-B4

<400> 2214

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ctctgattaa ctaaaacgca cacaaacaag aaaaaaagct nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntcga gacaaacatt 180

tcacattccc agagattgtg gtgtcgttgg gtacttactt cttagggtga ttcaggactt 240

gctaattata ggcaaaaaat ggttttgggt ttaagctcaa agaacagaag atgctcatcg 300

gtacaagttt ttacctgatc cacattcatg acatcaagcc ttggcctcct tctcagtccc 360

ttcgatctcc tccgctctgt tgttatccaa tgggagaatg gtgaccgcaa ttcctggtac 420

caacttctgt tgttgcccnt cctcttgggt tccgtcaatt ggcgaaaggc aaaatccgag 480

ttcaacgaat c 491

<210> 2215
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-B9

<400> 2215

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tagacgaaga tggctaaaga ggcgagaaac atggctggtg gttctcggtg ttgctcttca 120

cgccgtctac atgctaagca tcttcgacat ttacttcaaa acgcccatag tccacgggat 180

ggatcctgtg cctccgagat tctctgagcc gccggctaag cgacttgttc ttctcatctc 240

ggatggttta cgtgctgaca aattctttga gccggacgan gaaggcaaat acagagcacc 300

cttcttgagg natatcataa agaatcaggg ggcgttgggg gtgtctcctc aatgcctcgt 360

cctcctaaca ggantctana acttggncaa tggttgcta 399

<210> 2216
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E2-C9

<400> 2216

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aagaagctcg aagatcgacg atgaccagaa actacgtgcg tttttacgac aagagaatct 120

ctcaagaagt cagtggagat gctttgggcg aggagttcaa aggatacgtt ttcaagatca 180

agggtggttg cnataagcaa ggtttcccaa tgaagcaggg agttttgact ccaggccgtg 240

ttcgcctttt gcttcaccga ggaactcctt gcttcaagag gacatggaag gagaactggt 300

gagaggagaa gaaagtctgt tcgtggttgc attgtgagcc ctgatctctc tgttccgaac 360

cttgtcattg tgaaagaagg ggtgagaacg attctcctgg gcttacgant cctgagaagc 420

ccaagaatgn nagggaccna ngagaagcct cccaagattc ngtaancggt taacccccaa 480

g 481

<210> 2217
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-055-Q1-E1-C12

<400> 2217

gaaaaaaaac agagctttac aatttctctc tacagagatc gaagatatgg aaggcaagga 60

agaagacgtt agagttggag ctaacaagtt cccggagaga caaccaatcg gaacatcagc 120

tcagagtgac aaggactaca aggaaccacc accagctccg tttttcgaac ctggtgagct 180

ttcttcatgg tctttttgga gagctgggat ngctganttc atcgctacnt ttctctttct 240

ctacancact gtcttgactg ttatggggan gtgaaaangt caccgaacat gtgtgcttcc 300

gtcgggatcc nnagggaatc acttgggctt tcggttggta tgatanttgn cttagtcnac 360

tgtnncgctg gtanctccgg gtggganaca tcaacccaag cggttacntt ttg 413

<210> 2218
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-D11

<400> 2218

acgcgtccgt cttctcactc tgttttcgtt tagagagatt ttgcagagat gtcgagacga 60

gcaatggtga taaagatgcc aatacttatg atactgattt catcaatggt gatgacgatg 120

gtcgagtctt cgagatcagt taataatggt catgacgatt ctgagatctt acgaagacac 180

ttgctcacta atggcctcgg agtcactcct cccatggggt ggaatagctg gaaccatttt 240

agctgcaaca tagatganaa aatgatcaaa gaaactgctg atgctttggt taccactggc 300

ctctctaagc ttggntacan ctatgttaan atcgatgatt gctgggctga aatttctcgt 360

gacagcangg gaagtctggt gccaaangaa gtcanctttc ccttctggaa ttaanggcg 419

<210> 2219
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-D8

<400> 2219

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ccactctcat gggaagcgcg tgtgctccag acgctggctc aagaccaggc ccgtctccag 120

tacctgagca gcctcgtcgc cgggagatct gtantcccca ttgcctcagg gcgtcaaatg 180

ttgcaaagca ctanatacat tgtcnnggct ttgatcggta ctccggctca gccgctgctc 240

ctagccatgg acacgagcag tgacgtggct tggattcctt gctccggctg cgttggctgt 300

ccntctaaca cggccttttc ccctgntaag tctacatcct tcaaggaacg ttagctgcan 360

gcgctcctca gtgnanngca ggtaccaaac cncacgtggt ggagca 406

<210> 2220
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-E12

<400> 2220

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cggagcgtgt tcaaagtcaa ttagagtcaa tgaatttatc tcaacctagc gaagtctctg 180

atggtagcca caccgaattt agcggtggcg gcgatgataa tgatgatgag gttgcatcgg 240

ctaacgggaa cgaaggcgga gttagcaatg gaggtttatt gcgtgaaggt gtggcgggaa 300

ctagcggagg agaggttttg ttaagggcgg aaaatccggt ggaaatggna agcangttga 360

aggaaccacn cgaagtccgg actagtagnc ggttacgaat ggaga 405

<210> 2221
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-F4

<400> 2221

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aaagagaagg atttttggac tgacacagag aatgctataa ggaatgccta cagatcaaca 120

gatgccgtga tattgcagca gtcccttaag cttggtaaag gcggatcaac agctgtaacg 180

ggaattctaa ttgatggtaa aaagctagtt gttgctaatg ttggagactc cagagcagtg 240

atgtctaaga atggtgttgc gcatcagcta tctgtcgatc atgaaccaag caaggagaaa 300

aaagaaatag agagccgagg tggctttgtg tcaaatattc caaggggatg ttccacgagt 360

ggatggacaa gttagcggtt gcaagagcat ttggagataa nagcttaaag ttacatctga 420

gctcagaacc ggacataaca caccaagaca attgatgatc acactg 466

<210> 2222
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-F9

<400> 2222

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ttctccacta aacccataat tgaaagaagc tctttttttg cttacattga agttaaaaaa 120

tcatcacttg ttttgttttt gaagaaacac acataaagtt tgtctttta cttctcaaat 180

ttggttgttt tcactcaatt tcaatcttgc tttctgattc agantctggg ttttcttcag 240

aattcccaga gaagttgttg gaattgaatt tttcactttt ttgttcataa aagttctagt 300

ctttttagat gaacatggga caaggaanca gagcaaancc taaattantt acctttgggt 360

caagagcgat ccctttggca atggcaatga ngga 394

<210> 2223
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-G3

<400> 2223

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tttttctttc atcctctaaa aaaaaatctt tctggtgagt aacgaaaaaa atgtgtccgg 120

tggagaacaa atggttaaag gtgggtcaaa aaggagctgg tcctggggct agaagctcac 180

atgccatgac cgtcgttggg aacaaagttt actgttttgg tggtgagctt aagccaacga 240

tccatattga taacgatctt tacgttttcg atcttgagac tcaagaatgg tcgatagctc 300

ctgcgaccgg agaggctcct ttcccctggt tttggtgtct cgatgggnaa cgatcggttc 360

aacnatctat gtctacngtg ggccgtgacc nagaaacggn gatacaaacg gncttcattt 420

cgtaatgata ctgaggacca attagtggna attggttggc tcctgttgaa ggaagg 476

<210> 2224
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-053-Q1-E1-G4

<400> 2224

tcctcaagct atctcctttg tgtccataat cgaaacgctt tttgcgattt atcctaatct 60

tttttctatc ttctgctaca aatttggttc ttttttggtt gaatttggat aaaatcataa 120

tctcctcttc aattttcttg tgaaatggaa gtttcagtga ttggaaatcc tcaagcgagg 180

atctgcagag cagaattagc ttacagagag cttggattta gatttggctc tgatgtaatc 240

tccggtgaat cgagaaatag ggttagtttc tgcaaccaaa gctctaaatg gaaagagatc 300

gcgatacgtt gctcttcgag atctgtcaaa tgtgaagcca tcgtctccga tgacgcttct 360

ccgtttctca aatccactcc aaaatctaaa tcgctcgaga gtgtaaaatt att 413

<210> 2225
<211> 349
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-G5

<400> 2225

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tcggtcatat gttggctggg attttgagga agaacggtgt tgatgatcag gggattaact 120

tcgatactgg agctanaact gctttanctt tcgttacgtt acgtgctgat ggagatcgtg 180

agtttatgtt ttaccgcaat cctagcgccg anatgcttct tcgtcctgat gaactcaatc 240

tcgacctcat cangatccgc caaagtgttt cactatggat caataagttt gatagtggga 300

gccgtggtan gtcagctcat ttgaaggcca tggaagtggc gaaagangc 349

<210> 2226
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-H4

<400> 2226

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ctctctctct ttctctttga ttcaagtttc caaaaatgga aggtttgtgt ttaaactctt 120

tcactcgtgt tttacttta ttgttcgttt tcttggtttt tttctcataa atggnaacga 180

gtcaacgcgg tcgaaccggt tttggagctg gtaaaaggct ttgaagctaa accggactcg 240

tcnatcgact cgttccaagc ctctcctcac tgactcaaac gggnaacttt tcantcgggt 300

tctaaggggt aaacgggtca ccgttntctc tcncnccgnc acgcanccaa atttaaacng 360

atcnacnaat gggttctcga accggannng ctcangctan gcgggggtct cagaanacga 420

aaactcct 428

<210> 2227
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-H5

<400> 2227

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ctcgtgttct cgggtatgat cgcgagtagc atatacgacc gggaagcaga aaggcaagct 120

cacggctccg tgtttgatcc agatgacgcc cttagatgca atggttctat ctgtttcttc 180

ttgacatcac tcataatgtc tggattctgc atcatcgctt gcatgttgag tatgattctt 240

gtgcgtcgta ccaantctgt ctacactcat ctctatggca agacccgcac ctaagatctc 300

tgttcccttt tatannatna tcgtgcncag cttcttantc tttggggtnt ngtcgtcana 360

tctangatcc aanatggttt tccgtctccn gtanccgatt tttttggctt ggttcctggt 420

anc 423

<210> 2228
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E1-B8

<400> 2228

tttantagca agcttagatc tcctccttcc acagtcactt tctcttcttt ctctgctttt 60

gtttcttcaa tcgatttgct tcagatttcc ccagattata tagaattcga tgtcaagaca 120

cagaattcac atgggttttg tctaaaaatc ataaaaatca tatcttttta cggatttgaa 180

gatgaatcag aattcctctg ttgcggaggc gacgcttcag cttaattccg gtgaaaaacc 240

atcgccggga tcgattccgt ttatctcctc tggtcaacac ggaaacataa gcacntcagc 300

gacgagttcg acaagcacaa gctcaggtaa gtgctcntgc cgtagttaaa tccgccggtg 360

aanaaancaa ctnaagatcg ggcatantaa agtcgatggt cgtggacggc gaattcgtat 420

gcc 423

<210> 2229
<211> 372
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E1-E5

<400> 2229

atttacaaga ggcagctgga gccagattta gccagattga gttgattgga agaggctctt 60

ttggtgatgt ctataaagcg tttgataagg acctcaataa agaagttgcc attaaagtaa 120

tcgacctgga agaatcagaa natgagatcg aagatattca gaaggaaatt tcagtattgt 180

cacaatgtcg ttgcccatat atcaccgaat actanggttc ttaccttcat cagaccaagt 240

tgtggatcat canggaatat atggccggtg ggctctgttg ctgatnttcn tcantctaat 300

aatccgttgg agtgnaacag caatcgcnct gtatcacacg cnatttgcgt tcagcnggtt 360

ggaatattcc gc 372

<210> 2230
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E2-A1

<400> 2230

cggcacagtg tccggnactc ncgggtcgac ccacgcgtcc nacataatgt ctgcgaaaga 60

tcgaggaatc ggaagcagag gcggtgatcg gaatcgaatc ggaccaccgc ctctgccggt 120

agccttgtcg tcgtctactg aatttggcga taacgcgttg tcgtcgcggt ggacgtcgtg 180

gcttgttccg atgttcgttg tggctaacgt tgcggttttc gtcgtggcga tgttcgttaa 240

taactgtccg aatcatttcg agtctcaccg tctcagaggt cactgtgtcg ccaagtttct 300

cggtagactc tcctttgagc ctctccgaac taatcctctc tttggtccat cttctcacac 360

attggagaag ttaggagcac ttgagtggag cananttgtg ggagaagaag gaacgttggc 420

gtcncctgga catgtatant gggtncacgc ggggtgtta 459

<210> 2231

<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E2-A2

<400> 2231

caagctaaaa atctcataga tcagagtcgt cgtcgtcaac ttcatcatca caaaaatctc 60

agctttgnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnccgttact 180

cttgacacca tcaaccccaa ggttatcaaa tgtgagtatg ctgtccgtgg agaaattgtc 240

aacattgctc agaaattgca agaagatttg aagactaaca aggacgctta tccctttgat 300

gagattatcn actgtaatat ncgggaatcc ncaatctctt ggncaacagc ctatagnatt 360

cctcagaaga ggttcctggc ntt 383

<210> 2232
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-053-Q1-E1-D10

<400> 2232

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actctgttct gtggagaaac actagtttta cattcgagag tttggaaaag ttattattat 120

ggtaagtcaa tcagctggtc aaacaagatt tcgaacattc aagtacgaga acaacggaga 180

ctcnagcaga ncaacaattg tagtgagagt tattgcttgc ttccaaccga nggatanttg 240

tcaggctgaa tacttnagac atatactcaa accagtgacg tagttggttt gtgagcttgt 300

gtttgtattt ttggagctgg naccttttt cnttntgtct ctactttctt atacgantgt 360

ttcaagaaag aatcaanaag tgtngcgttc cacacattng gggc 404

<210> 2233
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-054-Q1-E2-C7

<400> 2233

gaatttaggg tttttctctc ccccgagctt gcttttccgt tgggtgaacg actaccgttg 60

attttcttcg ttttttttgga taccgattcg attctctctc accgattttt gaggttctct 120

atttttcgtg gataagaaga taaagttatt gtttattgat aagttttctg ctgggaagtt 180

gcaacttttt ctagatttag gacgttacaa atttcaatca tgagtgcatc atgggcagat 240

gtggctgatt cagagaaggc cgtttctcag tcaaagcctc cttatgttcc cccacaccta 300

cggaacaggc catcagagcc tgttgctgct cctttgccan anaatgatca tgcagggtat 360

ggtggtcaac cagctgggtc tcngttgggc tcctcc 396

<210> 2234
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-G5

<400> 2234

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agaggcagat ctgttattct ctgttgaagt ctgattgatc tgatcggagc tattgcggag 120

gaggggttta ctgcaattgc acggtggtaa tggctgcggt tccgcctnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnccacgtct caaatatcan aggatgggtg 300

gcaacgttcc tgcgttgcta tctaacgatg ctgcttcctg catcgctgtt gctgcgagga 360

tgatcgcgct tggtacgcac gacggtaccg tgcgtatcct cgatttattg ngggaatcag 420

gttaaagaat ttcgtgccca cactgctccg gttaatgaca tcaactttga cactnaggga 480

gagtatatcc 490

<210> 2235
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-G6

<400> 2235

acgcgtccgc aatacacaaa caaaacaaaa aggatgaaaa tgcaaacact aaacttcact 60

tcttctctct tgttcttgtc ttttatcttc ctctcatgtg ctctgcttat ctcatcacaa 120

caatctccat cacagccaca ttctgagcct ccgtcacagc tacctttga gcctccggta 180

gagtcaccat tcttccctcc gtcacagcca ccaatattcg tgccaccgtc acagccacct 240

tctttgcctc cgtcacagtc tcagtcacct tctctcgctt gcaagtcaac tccatacct 300

aagctttgcc gtacgatcct caacgctgtc aaatcctcac cgtcagatcc ttaccgttac 360

ggcaaattca ctannnagca atgcctcaag caagcaagcc gtctaggcca aagtcatcac 420

cagttacnc 429

<210> 2236
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-H12

<400> 2236

acctgttcnc gcctgccatg taanggtccn agagggtcga ggnacccgtc cgcaaccacn 60

gaatctcgac tttgatcaat tgagagagaa atgaacaccg gcggtggcca atacacggat 120

tttccggcgg tggaaactca cggaggacag ttcataagtt acgatatctt cggtagttta 180

ttcgagatca catctaagta tcgtcctccg attataccaa ttggtcgtgg agcttatgga 240

atcgtttgct cngtgttgga tacggagacg aacgagctan tagcgatgaa gaagatagct 300

aatgcttttg ataatcatat ggatgctaag cgtacgcttc gtgagatcaa gcttcttcgn 360

catcttgatc atgaaaacat tatagctata agagatgttg ttccaccacc actaagaaga 420

cagttcangt gaggtttat 439

<210> 2237
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-H7

<400> 2237

aaacaatttt ggcaactggg gggtacggca gagcatactt ctctgcaacc tcancacata 60

catgcacagg ggatggaaat gcaatggttg cacgggccgg tcttccactg cangacttgg 120

agtttgttca attccatcca actggtatat atggggccgg atgtctcatc accgaaggat 180

ctcaaggtga aggtggtatc cttanaaaca gtgaaggtga acgttttatg gaacgatatg 240

ctcctacagc caaggatctt gcatcaagag atgttgtctc cagatccatg actatggaaa 300

tcagggaagg tcgtggtgta ngaccgcata aggatcatat ctatctccat ctgaatcatc 360

ttcctccaag angttctaaa agaaaggctt cctggaaatc tctgagaccg ctgccatccn 420

ttgctggt 428

<210> 2238
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-A1

<400> 2238

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gtctttcttg tgttgcaagg aagcagctaa aagggttatg agaggaggtg gtggaagaat 120

cattatgatg tctacatcaa tggttggtgg tctcgccccg ggttatggag tttacgcagc 180

atcaaaggcc gcctttgaga caatggtgaa agtgttggcg aaggagctta agggaagccg 240

gataaccgcg aattgcgtgg cgccagggcc ggttgcgacg gagatgtttt atgctggaaa 300

gagtgatgaa acggtgaaaa tgcttgcagg ggcttgtcct atggggagga tcggtgagtc 360

aaaggatata accganattg taagggtttt ggccccgtta agggggggaa aggggnttaa 420

acggccaa 428

<210> 2239
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-A11

<400> 2239

gtcttcgtcg gagctgtatt taacaaggaa gagagtaaac acatcgtacc gatcggtacg 60

cttcgcaatt cccggtttat gtcttgtttc cggtttaagc tctggtggat ggcccanaga 120

atgggagaaa tgggccgaga tattccctac gagacgcagt tcttattggt cgagagcaac 180

gatgggtccc accttgantc tgacggagct aacggngtcn agtgtaacca gaaagtttac 240

accgttttct tgccgttaat cgaaggatct ttccgttcgt gtctccaagg aaacgttaac 300

gatgaggttg agctctgttt ggagagtggt gacgttggac actaaacggt cgtcgtttac 360

tcactctctg tatattcacg ccggtacaga ttcgtttcag acaata 406

<210> 2240
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-A2

<400> 2240

acgcgtccgc tcatcagtgt gaggacacag cagcgagact gctcgaggta ctgctcaaca 60

acgtgaagat tagagattca aaagccacca agactgcaat cttgccattg tctcagtacc 120

tcttggatcc acaaactcaa gctcancagg cgcggttact agcaactttg gcccttggtg 180

atcttttcca gaatgaagct cttgctanaa gcaccgatgc agcttctgct tgccgtgctt 240

tagtcaatgt ccttgaagaa caacccacag aagaaatgaa agtagttgct atatgtgctc 300

tgcaaaatct cgtcatgtat agccgatcta acaaaagagc agttgccgag gcaagtggtg 360

tgcaggtcgt cntggatctg atcaattcca nngatcctga aacgtccggt caagg 415

<210> 2241
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-A3

<400> 2241

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cgcgtccgca caattaacat ttcctagcaa aaaccttaat tgtgtttcca tctcaggagt 120

gattcgaaga aggaagtatc tactagaagt cttcaactgg tatatctcag agcaatggaa 180

acacaattaa ggtttttgct aggaaatgtt aaattgggaa gtcataagcg gcatcagata 240

tggttcttga agaagtttct tttgggtccg gagaaagaaa cacttttgat agatatagtg 300

agattcgttt gctgtgttat tcatccaact aacgaaatca tcagatcaga gatcatgcca 360

agatgggcta ttataggttg gcttttggaa ctgtgtaggc aaaatcatca catcgagcga 420

agcgttatgc tggctctgtt ttacgactgg ctcntccttg accaaagaat ccataanatt 480

tt 482

<210> 2242
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-A4

<400> 2242

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tgttgcccac tagaagcaat acttgccata ctcaaacaga caacatcaag cctccaaccc 120

aatgtgacag ttactacact tgtcctgana gcaacacttg ttgttgtctg tttgagtatg 180

gcaagtattg ctttgcttgg ggatgttgcc cactagaagc agccacttgc tgtgatgaca 240

actatagttg ctgccctcac gagtacccgg tttgtgacct tgatcaagga acctgtttat 300

tgagcaagaa cagtccantt aatgntaang ggcntaaagc cttaanccgc aatnccantc 360

cggncacaca gggcaaaagt acatttcnaa aacatttggc tctctcaaaa nnggactcgg 420

ggtcacaggg agaaaagatt tcncccctaa ggggnttttc caaggngttt taaaggggtn 480

gtgttta 487

<210> 2243
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-A5

<400> 2243

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tctcttctcc gttcatcttc cggtagatct gccgccaaat tagtcaaccg aaaccccagg 120

cttccttctc cttcacccgc gcgtcacgcc gctccatgta gctacctcct cggccgcgtc 180

gccgagtatg cgacctcttc accggcaagc tctgctgcgc catcctctgc tcctgctaag 240

gatgagggga aaaagaccta tgattacggt ggcaaaggtg cgatcgggcg tgtttgtcag 300

gtcatcggtg ccattgtcga tgtgagattc gaggatcagg aaggattgcc tccgatcatg 360

acatctcttg aggttcagga tcatcccaca aggctggtgc ttgaggtgtc tcatcatttg 420

ggtcaaaatg tcgttaggac cattgctat 449

<210> 2244
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-052-Q1-E1-A7

<400> 2244

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tgtaggaatt ggcaaattaa aggttttgat tgacgaaatt ggtgattaat tgcttaagct 120

gctggtgctt agaggaagat acgtgttgct gatttcaatt tgcttccaca atgttgcttc 180

aactacaagt tgttaaagct tgattctttt tgggacatga gcatgtgact tatgaaagtt 240

ttaagtcttt atttgtgatt tgagctggct aagagaagac tcttgtctct gtttgatagt 300

agtcatggtg atcattctcc tattggtctt ctttgttggt tcttctgtga gccaaccatg 360

tcatcccaac gacttatctg cgctccggga attggcagga gcgttgaaga acaagtct 418

<210> 2245
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-B3

<400> 2245

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gatgctaaag gaatacttag cttgtatgaa gcggcacact tgggaacaac gacagattat 180

atattggacg aagcgttgaa gtttacatcg agccacttga agtctttatt ggcaggaggg 240

acgtgccggc ctcatatctt aaggcttata agaaacacac tttatttacc tcaacgttgg 300

aatatggaag cagtaattgc aagggaatac atttcgttct atgaacaaga agaagatcac 360

gataagatgc tactcagatt agccaagctc aatttcaagt tattgcagct gcattacatt 420

aaagaactga aatcntttat caaatggtgg atggagctaa ggcctaaatc caant 475

<210> 2246
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-B4

<400> 2246

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atgtgttttt gggtccttct cgtcgtantc ttgaacatag ntgaaaagga cccaaaanca 180

catgatggaa tggatttgag ganagttaca actaaggatt tgantgcnaa attcggtctt 240

aaanaanata ctantgactt tatnggtcat gcagtggcac ttcactgtna tgacaatcat 300

ctccatcaac ctgcctatga tacngtaatg agaatgaagc tctacgcaga gtcccttgca 360

cgttttcann gaggttcacc atatatctat cctctctatg ggttgggaga attgcctcag 420

gcatttgcac gacttagtgc gtcnaatggn ggggacntta taagtttaaa naaaactgg 479

<210> 2247
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-052-Q1-E1-B8

<400> 2247

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aatggtgatt ttataagcca ttggcanaat ttgcagtatg gccgctcttg ccagaattct 180

caacatccgc ctgtgttgta ncctgctcct gttgtagtgc cacctgctta tctccagggg 240

cgtttaccat gggatggtcc tgnaagacct ctggcttaca ccaatgctgt gaatcaactc 300

atgacctacg gacctcgtct tgtaccggtt gctcctgtac aacctgtttc aaccaggcca 360

cccaacattt aacctcgtta cgctatgaaa atcccagata tcnaa 405

<210> 2248
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-F8

<400> 2248

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gcgcctattc cgtcgtacgg tggtgatgga tacggcggag ggggaggtta tggaggtggt 120

gatgctggat atggtggacg cggtgcctct ggcggaggta gttacggcgg acgcggtggt 180

tacggtggag gcggtggtan aggaaatcga ggcggtggag gtggtggata tcaangaggt 240

gatcgcggtg gaagaggaan tggcggcgga ggcagagatg gagattggcg ttgtcccaac 300

cccagttgtg ggaacntgaa ctttgcaacg agagttgant gtaacaagtg tggtgcactt 360

gctccttctg gtactagttc tggtgctaat gatcntggac gtggtggcta taacccgaac 420

gtgga 425

<210> 2249
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-C4

<400> 2249

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnaaaa ccctaatttc tctttttctt ctctgatcaa aattggtttc 180

gaaaagggag gagagtgaaa gatatacata catacacacg aaaggggttt aagatgtctc 240

ttccgctact ggagtgtaag tacgtgacgg aggagtttgt tcgtgaaggt aagaatggca 300

actatggaac caagctgccc agctctgtgc cgatgcttcg tttcctctac gagctctctt 360

ggattttggt tcgtggcgaa ttgccaattc agagctgtaa ggcagtgttg ggaaagtgtg 420

gagtttttgg ataagccatc gagagaagaa ttagc 455

<210> 2250
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-C6

<400> 2250

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caacgtagtt agagatcgac actggcgcgg tggatttagg gttttttttcc tccgcgacta 120

cgctcggcgt ttcgatttgg aaccctaagc tatgtggaac aacaacgatg gtatgccctt 180

agctcctcct ggtactggcg ggtccatgat gccgccacct cccgctgctc atccttctta 240

cacggcgctt ccgccgcctt ctaatccgac tcctccggtc gagcctactc ctgaggaagc 300

ggaggctaag cttgaggaga aggcccgaaa atggatgcag ctaaattcca aacggtacgg 360

cgacaagagg aagtttggat tcgttgaaac tcaagaaggg aggacatgcc acctgagcac 420

gtcaggnaga ttatc 435

<210> 2251
<211> 367
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-C9

<400> 2251

attttacgaa ttcgaatttc aagtttccga ttctctaaat ccaattgatt tcactcttcc 60

tcaaatgaaa aagccctaat tttgatcgtc taaatttcat acatgggtgc gaacgagttt 120

cgtttcttcc tctcctgcga tatcaattcg ccggtcactt ttcgtatcga gaagcttgat 180

ggaaacctcc ccgtcaagaa atcgtctgat tcgggagttg tctccatcgc agaggagaan 240

aaaccagagc tttacattga gtgtgcattg tacattgatg gagctccttt tggccttccc 300

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tcagttc 367

<210> 2252
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-D11

<400> 2252

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attttagaca aggcttcaga ggttaaggcc ttgctgaaat caggggagag aaattatcta 180

ccttttaaag ggaagtctat gtctatgatc tttgcaaaac cttccatgag ggactcgggt 240

ttcgtttgag actggttttt tcttgctcgg tggccatgcg ttatatcgag gtcccaatga 300

cattcagatg gggtaaagcg ggaaggaaag ctcgtgatgt ttgcncgtgg tcctttcaac 360

gccaaanatg gggaatcagt aacggggccc ctgntatttg gcccaacang ggaaattc 418

<210> 2253
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-D12

<400> 2253

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tcctctcgac cctgctgctt tttctgatgc actagttcag atttatctgg ataatgctgg 180

tgatctggaa cttgttgcca gnagtttaga gtcatctgat cttaatttct caagatacgg 240

tgatattttc tttgaggttg ttttcattgg aggacgtact caaactggtt cagtgaaatc 300

tgatgaaggg gaacaccacc cttactctat aatcgactgt gaaccaannc cgtngaaagc 360

tantttacca tcaattgtat acanacanga aantttttgc ngnngggaaa accctcccta 420

agtaagaaac ct 432

<210> 2254
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-D8

<400> 2254

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tctctctctc tctcgattct agcttcatcg ctgttccaaa tttaggaagt ttctgaggtg 120

ggnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nngagtcttg acaaaaccca aattccaagt tcacatcttt tcnagttgtt ttcatgttta 240

agatttttgg tcccttctga cttggacata gattctattg aggaattgag tacgtaattg 300

aaatggatct atgcntgctt tacnagttag ttanaagtca aatctctgaa ttgcttctga 360

tnaattgcag aaacaggtca caggtctgtc tnanatagtt acattgatgg ggttgctcnt 420

ggntatcgtg tcacaggaga naagntacag aaattgatgn gacaaa 466

<210> 2255
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-E10

<400> 2255

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tgtcaatctc tttcaggcag tttgctatgt actcattcga ccactgtcta ngaacacata 180

cagaaaaatt aaccgggtgg ttgcanaaac cttgtggttg gagcttgtat ggatagttga 240

ctggtgggct ggagttaana tccaagtgtt tgctgataat gagaccttca atcgaatggg 300

caaagaacat gctcttgtcg tttgtaatca ccgaagtgat attgattggg cttgtgggat 360

ggattctggc tcaccngtca ggttgccctn gngaaagcgc attaanctgt taagg 415

<210> 2256
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-E3

<400> 2256

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tcaatgcctc cgttaaaatt caatcttcgt ccatctcctc accgtggtgt ttcgtgtccg 180

catcgtcgtt gactccccga gcttcctcca atattaagag gaaatcgtcg aggtctgatt 240

caccatctcc tatattaaac ccagagaaga attacccagg tagagttcga gatgaaagtt 300

ccaatcctcc tcaaaaaatg gctttcaagg cttttgggtc acccaaaaag gagaaaaaag 360

agtctctttc tgattttagt cgagaccaac agactgatcc tgccaagatt cacgatgcat 420

cctttctcaa cgctgttgtc aaggtttatt gcactcatac tgctcctgat taatcccctc 480

c 481

<210> 2257
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-E6

<400> 2257

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taatccttct cagagatatg tcagtaatgg atgaatcagg catgtttaac gttcaacaaa 120

ccattggaag tgtattgtgt tgcaagtgtg gtgttcccat ggcaccaaac gcagccaaca 180

tgtgtgtgaa ttgtcttcgt tccgaagtcg atatcancga aggtttacag aanagtattc 240

agatcttcta ttgccctgaa tgcacttgtt acttacaagc caccaaagga cttggatcaa 300

atgtcantgg gaatctaaag agcttttgac attttgtatc aagaggttga agaatctcaa 360

taaggttaag ctgaagaacg ctgaattcgt ttggactgag cctcattcna agaggattaa 420

ggntaagtt 429

<210> 2258
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-F11

<400> 2258

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ttccagatct taaggttttc cacattttat catctgggtc ctctccttaa tgatttgaag 180

acactcaatt cctatttgat cggggactag aatttggatt ctgtttcang acaaaagtag 240

atttccctgt ctctttcccg tttgattttc aataagatga atccggagga gcaaaagatg 300

gaatctgcat cggatctggg caagctcttc attgggcggg atttcanggg acacagatga 360

agaacgactg naaggagtat tttggcaagt attng 395

<210> 2259
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-F2

<400> 2259

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aggtgtgcat cttcttggaa tcagctgact ttgcggtcaa tcggatttct tgggattgtt 180

tggagaaact ttggaggtga tggacaacaa aaatgatcag gatattgatg ttagatcagt 240

ggttgaagct gtttccgccg atctttcctt tggngctccc ctctatgtgg ttgagagcat 300

gtgcatgcgc tgcnaaggaa aatggnacaa ncagatttcn antgacctta attcctcact 360

tcagaaaggt cntaatatct gcanttgaaa tgtccgcatt gcgggggaaa gggataatga 420

actttcagtt ncgc 434

<210> 2260
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-F5

<400> 2260

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ttgaggagtt ccattatata cccacagaag tcaaataact caggatttgg ttggcgagat 180

ggagactctg atgacctttg tcagaccgat atggatgatc tctgcaacat tgaatcagtc 240

anaaacaatg ttttgtcaca gtccaccgat ttaaacaaga gttttaatcc catgtgtgat 300

tccacggata actggtcttg caagtttgat gaaagcccaa aagtgatgaa aagcanatct 360

aacctgcttt cttaccaagc ntcncaactc ccanactggn nttccatngt gaggancgaa 420

accatcttaa catttgccng gg 442

<210> 2261
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-C2

<400> 2261

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ttcacgattc tcacgacatc tgtttatctt ctccgatttc cacgtccatg gatctcagtc 120

aatgttcctt aatctctctt tttgattagt ccaatctcca ctaatctctg acctcagatc 180

gcttccgacg ccgctgaact gtgtccgtct tgatctgtgt ttaggagaaa gcttctaggg 240

tttttgtttt ggttgctgag tagaatttgt tggatctgaa acggaaatca aaatgggctt 300

tttcaagtac gatactagga ttttgtggat ttgganttgg gatttcattg ggacttgtta 360

ttggttacgt tctcttcgtc tacttgctcc ccaacgacgt caaggatcct gaaaatccgt 420

tcaaatancc tgaccaagat tcccanagct atgcntacgg gntgctccaa gaagaaaact 480

cc 482

<210> 2262
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-F7

<400> 2262

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nnnnnnncct ccttttgaaa gatcgaaacg tctccacaac ttctctttgc ctcaactccg 180

ttggggtcaa caaagattcc tcagatgcgt caatctacca tctcctcctc cttcttcttc 240

ctctcccgat cacgcagcca ccaatagatc cgtctccata gctggaagtt tcncttacnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnngaagctg cgtgtangtg aacctggcng anagaattga aanttgggng 420

ttaaagnang agaaagaagt atcaatccga ntgagtgg 458

<210> 2263
<211> 380
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-F8

<400> 2263

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gttggtatat attacggcgc caaggtttct ttgatcgatt tcttcttctt cttctggaaa 120

attatctcgt tttccgtttt tagttctttg agtttgggat cgttcaatgg agcccaacgt 180

agtggacatc gctactcctc ctgccgcttc ntgctcgaga attcgaacgc caacaaaggc 240

tgaaactcca gaagtgattg atgtggagga atatgatttg caaaacgggt ggngttccta 300

atgggcaaca atggttgatt atcagaacaa aggggaaagg ctatagangt ttgantccaa 360

ggtcttacgn ggtgaccatg 380

<210> 2264
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-050-Q1-E1-F9

<400> 2264

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cgcgtatgag ttaatggaca ctgatctcca tcaaatcatt cggtcaaatc aagcattatc 120

cgaagaacat tgccagtatt ttctttacca gatcctccgt ggattgaaat acattcactc 180

tgcaaatgtg cttcacaggg atttgaaacc aagtaatctc ctcctgaacg caaactgcga 240

cctaaaaatc tgcgattttg ggctagctcg agtcacttct gagagtgatt tcatgactga 300

atatgttgtc acgagatggt accgtgcacc agagcttctc ttaaactctt ctgattatac 360

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cca 423

<210> 2265
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-G10

<400> 2265

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cagctttgcc ttcttccaca agggtttgct tgtagactgt gagaagtttc ggagaccaag 120

ctacttctgt tgctgtttcc ctttgtgtca aatccattgn acngactgaa tccttgcgnt 180

ttttnctcng gttttgncgg tannttatag nacacagcgg ctcttangna tgcttcgata 240

ttcattctaa gagattctga gaccaatctt gctcatgtan tagttantgt tgtattagta 300

ncattgattc ttccttcagt ttgatcncca tgaccgtttt ccnaaacatg atgaagtcgc 360

tgaggtaggg tatatcggaa ccggtgcatc cccaggtata angggacagg gtngaaacta 420

gcgttaggac ccgttgggct cc 442

<210> 2266
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-G2

<400> 2266

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tgcgtgctgt ggttccttaa cccagacagc tatgctgata ctcctgagaa gcagaaaact 180

attctgcaga atttcttcga gcacatggca atcaagatta ctcggcgata agctttacaa 240

aatccgagta gttctcacaa tgaacaacgt cagattctca ctcttacagg ttgagaagct 300

angccagaga aagcttcttc ttccttggag agtctttcnc acacgattca gaaagctttg 360

gtgcattcca agacacatta acaatccaga agcctatgct agtctccaga ccaantctcc 420

taatgtcntt aatcnccatc cgcctttctg acatcnagtt tggtaactac acctctcttc 480

ttcgcnaaat ctct 494

<210> 2267
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-G3

<400> 2267

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tatcgtcgac tcttcagcat tataataatc ggatttatat ccgagattat ccgattccgt 180

gtcactcttc taatccaatt tgcaattctt ttaatttcaa aagacgttcg ttctctcctt 240

cntcccccaa atttaacgac catgtcgtta acccttcctc ttcttattta tcctccaagc 300

tttctccaat tcgaacccat tcctctttcg ctgcgtgtgg ctgctcctgg attcaagaca 360

attcaatggt tcatgattat gctacancaa ctaatgggac gtccaagcgt tgctcggcgt 420

taccaacaac angacacagt gggatgtctc ntcggtgtca agatcttttt gaattcataa 480

ngctccgggt cctctcgtaa aaca 504

<210> 2268
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-G4

<400> 2268

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actctctgaa tctcacaaga acattgcaag gtaaagaaac cacaagatca tcactcgaag 120

taaaaatggt gagcccattt agatctccat gttcttcacc caaaaaatca agaaaagcaa 180

gcaagaaccc ttattcaaat cgtggacttg ataaattctc tgagcttctc tccgagctag 240

acgagaagag gcaaagcatc tactcgaaga agctcgattc cggtggcccg cctcttgttc 300

gatttgtgtt cacaagctcc ggtgagtgtg tccccgttgt gatcagatca tcttatcttc 360

acaagaagaa caagaagacg aaagatgttg tagctgataa agtcaaaaca gaagtcaagg 420

aagcaaanac aagagggaaa tcaagaacac agagcctgaa acaggagcaa aaaacaagag 480

ctgtgtttat aaacg 495

<210> 2269
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-G5

<400> 2269

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ggtgggattg cctctgtaat cgccggttgc tctactcacc ctctcgatct aatcaaggtt 120

cgtcttcagc ttcacggtga agcaccttcc accaccaccg tcactctcct ccgtccagct 180

ctcgctttcc ccaattcttc tcctgcagct ttcctgnaaa cgacttcttc agtccccaaa 240

gtaggaccga tctcactcgg aatcaacata gtcaaatcgg aaggcgccgc cgcgttattc 300

tcaggagtct ccgctacact tctccgtcag acgttatatt ccaccaccag gatgggtcta 360

tacnaantgc ttaagaacaa atggactgat cctgagtcag ggaaanttgn atccngagta 420

gggaagatcg gtgcaggg 438

<210> 2270
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-G7

<400> 2270

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tcttcccata atttattgtt atgcattaca tatcacagta aacggacttt cagtcaacac 180

cgcatttatt tgccctcttc attgtttcac gtacgtaatc aaggaccaag ggattttctt 240

cttttggcta ccatggccac aanatgcttt tggtgttgga ccactttgct cttctgctct 300

cagctgctta ccggctttgc ccgagcttcg nctgcaggcg gcgccaaaga gaaaggactc 360

tcccaaactc ccacctgggc cggttgccct cgtctgtacc ttccttcaat tn 412

<210> 2271
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-G9

<400> 2271

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tgttttactt tctgttttcc tcttctctac tctggaacaa caactacaca cacacacaaa 120

aaaaaacaat tttctgtcta natanatatt aaggatccaa attagggaga gaccaaagag 180

gaaattaata acaatcaatc caacaacgaa tggagattga agaagcgagt cgtgaaagtg 240

gacatgttgt gtgcggatca tggattcgtc gcccgaagaa agtaaantgg gttcttatcg 300

cnaaagcttc naaacgccgt ggctcatctg tttcntctcc tgctctcctc aacatcntct 360

cttttgaccc cattactgct tctctttcct cctctccttt ggcaacacac acgcntaagg 420

<210> 2272
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 2272

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actcacacat cagaggacta ggtctcgact ctgccctcga gccgcgagct gtttccgaag 180

gtatggtcgg tcaagtgaag gcgcgtaaag ccgccggtgt aatccttcag atgattagag 240

aagggaaaat cgcgggtcgg gctattctaa tagcgggtca acccggaacg ggtaagacag 300

cgantgcaat gggtatggcg aaaatctctt ggcttggnaa ctccttttg cgatgattgc 360

aggangtgaa attttctcat ttnnagatgt caaangacaa gaagnctttg actcagtctt 420

tccgtaaan 429

<210> 2273
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 2273

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tttttcttac ccttctcctc ttcttatcat ctgcaattct atctttctct ctttatgaag 180

atcaagccgg cctcactgat tggcaccaaa ggtacattgg gaaagtgaag catgcagtat 240

tccacactca aaagactgga agaaagcgtg ttatcgtctc aaccgaggag aatgttgttg 300

cttcacttga tctcagacat ggggagatat tttggcgaca tgttctcggg acaaaggacg 360

ctatcgatgg ggttggtatt gccttgggaa aatatgttat cactctttca tcagaaggaa 420

gtactttaag agcctgnaac cttcctgatg gtcaaatggt gtgggaaaca tctctgcata 480

ccgn 484

<210> 2274
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-A9

<400> 2274

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ttttgctttt cattttgcca agtttccgtc taaatctctc tactttaaaa ctccggcggc 180

caacgtttcc accgatcctc cgacttcttt ccgagtttca tcttctaaca aaggaacgaa 240

gaagctctct tcaccgtttg agtaacgtga tccggtctac aaagaaatca gtctgcggga 300

gaaagtggaa gaagactgaa gatgaagaga gctaagagaa gatgttcaca ctgacactca 360

aaagcgaaag cctgaagttt cgtctcgagg ngaaaca 397

<210> 2275
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-B4

<400> 2275

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accggcggag gtatcagatc tcgccgatct gttgtagcag ctactgtatt ttgggcttct 180

catttgatat tggggaaacg aggagtagag gacgatggaa aatctgatct ctctggttaa 240

caagatacag agagcttgca cggctttagg agaccatgga gactccagcg ctttacctac 300

tctttgggat tccttgcctg cgatcgccgt cgttggtggg tcagaagctc agggaagtct 360

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tcnaaaggcc ccntgtctaa agttgca 447

<210> 2276
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-051-Q1-E1-C11

<400> 2276

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tccttttggg ttttgattag atctccgatt ttgggtttct atatattatg cgagctcact 120

tttgttcgtt ctgattatct gacaatgata ttctccaagc ttggttcttc cctcgctcga 180

tcctcacgtt ctaagggatt tgtgtacggc ggtggtgtga gatcggcggt atttaaccaa 240

gggaggttac gagcgccgca gaatctcgag gcggccgtca atcaggtgga tggtggatta 300

gggtttttga ggcggcactt tgcttctttt gctgctcgaa anggactaga agccggtgat 360

ttaagccgtg ctttcgctaa ccctagattg cgtcnggttc ctttcg 406

<210> 2277
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-F6

<400> 2277

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gactagagga agaatcctag gccgaggctc tacagccacc gtatacgccg ccgcaggtca 120

caattcagat gaaatcctcg ccgttaaatc atctgaggtt caccgctcag agttcttgca 180

aagagaagcc aagattctct cgtcgttaag ttctccttac gtgatcggat acagaggatc 240

agaaaccaag agagagtcaa acggtgtcgt tatgtataat cttttgatgg agtacgcacn 300

gtatggaacg ttgaccgang cggcggcgaa agacgggggg aagagtcgac gaggactcgg 360

ggtagtgaag gtanacgcgc gatatactaa nnagggattg gagtatatac antccg 416

<210> 2278
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-B4

<400> 2278

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gtttttttt gtaacaatgg cgaatccaat tcaagagatt attgagaaac aagttctaac 120

ggtagcgaaa gctatggagg ataagataga cgacgagata gcgtctctgg aaaagcttnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnna cggtggatga gtattggaca tggtgaatac tctgagattc attctgagaa 300

agatttcttc tccgttgtta aatctagtga acgcgtcgtt tgtcacttct accgtgagaa 360

ttggcctgta aagtgatgga taaacacatg agcatattgg caaagcaaca cattgagaca 420

cgtttccgtg aa 432

<210> 2279
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-B6

<400> 2279

acgcgtccgc ccacgcgtcc gggatgcccg ggcattgaga aggnaggacg ctttcagagg 60

cgaaaggcca tggggagata ccgtctgtga tccatggatc tccgatcggg aaaccgtatc 120

caagctccgt ggctagtctg cgctctttgg actttgaaaa cttagcgaac tgaaacatct 180

aagtagctaa aggaagggaa atcaaccgag accccgttag tagcggcgag cgagagcggn 240

tttgggattt taagaaaaag aaagacgaag cttcgttcca aagtgttcac ttctttttcg 300

ccaggtttca ttcgatttan tgtggattgg atgatggnaa aaccancaag ccctcttcct 360

tcagtcgagt tacttcgtan cttgactgaa gaatcctaaa agggcgctgt taaactgtta 420

attgtgnaaa aggttgggaa gatct 445

<210> 2280
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-C1

<400> 2280

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gtttctgtga gtgctgtgtg tgttctcggt ttgtaatatc taagtcgcac aaagatcaga 120

caaagtctgt ttgcgtttga tagcattaga gtctgatcga atttggaana cctgtgagat 180

tagggtttct ttttgtttgt tttttttat tccgaaggag agctgcggag caattggaat 240

tacctcggtt aaagcaatca cgtagctttg gatcgtttag ggttttctca ttgggtttgg 300

gggatttgta ttctagcttc ctcaaactca atctgatggt gatgtgaaga caaggcttaa 360

tcctgttaat tggcgattct agggtttttc aatggcgaac acaggcgaac ctgaccgtaa 420

aaggcgtcac tttagctcca tatcaccttc tgaagctgca gncgccgtaa aagaaacagc 480

cntt 484

<210> 2281
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-C3

<400> 2281

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tccttgacaa tttccatgtg caaacaanga gagagcatgc tttgttggga gataacgaga 120

atggtgagaa tgatgaggaa ggcggtgagg ttgcagaccc aanatggntc accattaaag 180

cagctctgct gctactgtta ggagctgcca ttgcagctgc atttgctgat cctttagtcg 240

acactgttaa caacttctcc gcagccacag ggattccgtc tttcttcatt tccttcatcg 300

ctttgccttt ggccaccaat tcaagtgaag ccgtgtctgc cancatcttc gcatcccgca 360

naaagatnag aaccggctcc ttaactttct ccgagctatg tggtgggagt gacaaatgaa 420

caacattct 429

<210> 2282
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-C4

<400> 2282

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cttcttgctc ctttctcttc tctctcacgc gttgctgttg ttgactctta tttctctctg 120

ggtttcctta aaccttccgc tacaatcttc tcctcttaca tgcgaagctt ctccgattct 180

caagttttga tagcggctta atactcgcaa ttatggattt cgcagccaag aaattcatca 240

acaaccccaa cgatgttgta actgagttca tagagggtct ggtagaaact tatcctggac 300

tccagtattt ggatggtttt cctgaagtta aggtggtgct acgagctgat gtctcggctg 360

caaaatatga caaggttgcc gttatctcaa gtggaggcaa tgggcaatga gccaacaaat 420

gctgggatac nttggagaaa ggaatgctaa canctgctaa tttgtgggaa angtctttgc 480

ctccccaaca antt 494

<210> 2283
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-D10

<400> 2283

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cagtcgtcgt catcatctct gacagcaagg ttattcacat aggcaaagaa gtcattcttt 120

tgcatgctgt tttccaataa agttaattcn ctaacagaac aagtttcgag attggatatt 180

gacgacaacg atatgggact tggaggtagt gaaacaatgg aatgcaagtg tggtatgcct 240

ctgtgtatct gtgtagctcc tcccaaatca actgataaac caaacccacc tgctaccatt 300

gctcctgtgg ttcttcctca gttgaagtca naggcttcag canaaagtaa aggttccact 360

tccagcagca atgctagatc agctctaaat gctggactag acacccccca aagagactat 420

gaagccagtg gggagggat 439

<210> 2284
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-D12

<400> 2284

ccgccaaatt agtcaaccga aaccccaggc ttccttctcc ttcacccgcg cgtcacgccg 60

ctccatgtag ctacctcctc ggccgcgtcg ccgagtatgc gacctcttca ccggcaagct 120

ctgctgcgcc atcctctgct cctgctaagg atgaggggaa aaagacctat gattacggtg 180

gcaaaggtgc gatcgggcgt gtttgtcagg tcatcggtgc cattgtcgat gtgagattcg 240

aggatcagga aggattgcct ccgatcatga catctcttga ggttcaggat catcccacaa 300

ggctggtgct tgaggtgtct catcatttgg gtcaaaatgt cgttaggacc attgctatgg 360

gatggn 366

<210> 2285
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-D3

<400> 2285

aaaagcatca accaaaccat ggctgcgaga aatttggaga agatggcttc tattgatgct 60

cagctcaggc ttcttgctcc tggcaaggtt tctgaagacg acaagcttat cgagtacgat 120

gctctgttac tggatcgatt tctcgatatt cttcaggatt tgcatggcca ggatgtcaga 180

gaattcgttc aagaatgcta cgaagttgca gctgattacg atggaaaccg caacactgag 240

aagcttgagg agcttggaaa tatgctgacg agtttggatc caggggattc aattgttgtc 300

actaaatcat tctccaacat gcttagcttg gctaatcctg gctgaggaag tccagattgc 360

ttaccggcgt angattaaga aactcaagaa aggtgatttc gctgatgang gcctctgcaa 420

caacggaa 428

<210> 2286
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-D7

<400> 2286

acgcgtccgc ccacgcgtcc ggttgcnatg gaccaacgca ccaatgtgaa cggagatncc 60

ggcgccggan accggaagaa agaagaaagg nttgatncga atgnanaacc ancgttcaag 120

attnggngat ataaaggggg ngaatcccaa acantgttgg gttaaaaatc ccttttgaga 180

tcaatgaagt tacgtcgtca ganacattat cgccgtcgcg gctttggcca tcgctgccgt 240

gtangttgat agctggttcc tttggcctct ttattgggcc gcccaaggaa cacttttctg 300

ggccatcttt gttctcggcc acgactgtgg acatgggaag tttctcagac attcctccaa 360

ctgaatantg tgggtggnca caatcctcat tccttcaacc ccgttcctta naatgggttg 420

gagaataaa 429

<210> 2287
<211> 372
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-D9

<400> 2287

cttcntcttc ttcgttgaat ccgtcatcct ccgatcactg aagaggtttc cgattacnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnntct cgaggcatca acganacgct ttcgctccca ttcatnattg tttgatctct 180

atcaatccca gcacatcttc ttcatctcta ttctcggntt cttccttctg ttcgtctcca 240

cattcnaatg gagatggaaa gattgcangg ccgtnagtgg agtatgaacg cagaatcgta 300

gctggagagt tattggatgg agatttatgt caagctaggt acactaagag aacttcaaga 360

gactctacga cg 372

<210> 2288
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-E1

<400> 2288

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cctctcctca gatcttcaac ctggatcaaa tcaatgcact tacaaccgat acacttgtat 120

ctgacaacgc cttgaagttt caggatctgg accttgtccc ccataaattg aagggatatc 180

cggtcgagtt tcttatccaa tattgcaagg gtggnccnaa cttcggttca acggcnntng 240

aaagntncca acnaanctct aaccctgnng ctggnctccc cggtcaaaag ncaattcctg 300

gactaaattt ttcaagcaag tgtcncaaat gagattgcgg gaancanatt tgcaagtttg 360

aagacttcaa tttacntccg gncaataata aaacggggtc cccctccttg gtggggttcc 420

ctgaaaaaaa ataan 435

<210> 2289
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-E10

<400> 2289

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gatttcagac aagagactac naanatccgc caccaantcc gtttttcgat gcggacgagc 120

ttaccaagtg gtctttatac agagccgtca ttgccgagtt cgtagccnct ctcctcttct 180

tgtacatcac cgttttaact gtcatcgngt tacaagattc actccgacac aaaagccggt 240

ggacttgact gcggcggcgt cggaatccnt gggatcgcgt gggcttttgg tgggcatgat 300

cttcatccnt gtctactgca acgccggtat ctcaaggtgg tcacatgaac cctgcgggtg 360

acgtttggtt tgttcttagc ccnggacgt 389

<210> 2290
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-E11

<400> 2290

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cgtgggacaa tagcgtccta tggctcgtgg aggaaaccaa antgatgcat ttctgaagaa 120

natcctcttt tttgttggaa tctgtgtggt gatatttctc atctggtgaa aacnaatcac 180

atttggtgta tttccaggta tgatcaaact tacttacttg gtgcaagttg tgtatgtaaa 240

tatggtnata gctgagtgta cttgtctgct atttcgacgt tgttattgta tttttgtttt 300

gaanatgaac cgtgagtcta caagcttttt tacacaactc ttttgttgct tttgtgtttt 360

gtctaancat cntgtgaaaa ctagttgtga caataaatgg tgccgtgtta ngacataaga 420

agtattat 428

<210> 2291
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-E12

<400> 2291

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cncncnattc natggcttta ntacgtgaac gtcgtcagct aaatctccgt cttnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngtcg 180

ctggctgtaa cggaatctcc gcttgtgatc tcgagaaact caacgttctc ggatgcggaa 240

acggcgggat tgtttacaaa gtccgtcata aaaccacatc ggagatctac gctttgaaaa 300

cagttaacgg cgacatggat ccgattttca caagacagtt gatgcgagag atggagattc 360

tccgccgtac agattcaccg tacgtcgtta agtgtcacgg aatcttcgag aaacctgtcg 420

tcggtgaagt atcgattcta atggagtata tggacggngg gac 463

<210> 2292
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-B3

<400> 2292

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ccgatcgttt caatttctaa aattctcctc tctcaacgca atcaccaaat ccaaatttag 120

ggtttctttt ctctttctgc gatcgatctc tgaaaactca taactgttgt ttaatcgtga 180

agatggcatc aaacggatct ttctctgctc agagaaacgc aaacgctaga acaacgatga 240

agagaagaag cgacaatcgc ggttacggtg gcggaatcgg aggttatcaa gaggagacga 300

accgttacgc gccgccgcaa aaacgtttca gatcacaagc gcaacagcaa ttccgatctg 360

gtcataatcc tctgtatcat catcatggta gtaataataa taacgtgtct agggtttctt 420

ctcaatcata taacaattgc ggtgttgatg tgattgcttc taattcaaag ttttgcatta 480

cgtt 484

<210> 2293
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-F7

<400> 2293

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ttctcaatca catcagctcc cggagacgat tacctgagcg tacatatccg cactctcggt 180

gactggacac gtaagctcag gaccgttttc tccgaggttt gcaaacctcc taccgccggt 240

aaaagcggtc ttctccgagc agacggagga gatggaaacc tcccgttccc gaaggtcctt 300

atcgacggtc catacggtgc tcccgcacaa ggactacaag aaatacgacg tggtactcct 360

cgtaggtctc ggcattggaa gccacgccta tgatcagtat ccttaaggac atc 413

<210> 2294
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-F9

<400> 2294

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ctgaaaaccc cccaaaatca aacaattgga tcttgatttt tagctgtgat ttagtgatta 120

agaggcttag ggtttgtggc gaaatgttgg tacagagaag agtaatgagt tggagaagag 180

tctggaagtc gtttcaagcg gcttctgcgc attgtttact cttctccttc acgcttcttc 240

tcgctttgaa gcttgatcat gttgtttctc attcatggtg gtttgtattt gcacccttgt 300

ggttgtttca tgctgtgatt gctcgtggta gattttcatt gcctgctcca tcaatgcctc 360

atgatcgaca ttgggctcct tttcaactcg gttatggcaa n 401

<210> 2295
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-G1

<400> 2295

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ttaccctggt agagggatca natttatccg atcggactct caggtgtttt tgtttctcaa 120

ctccaaatgt aaggaggtat ttccacaana aattgnagcc ancnaatctt tnctcggaat 180

gctnnggtga ctggacaagt aaacncagga ccgtttnctc caaggtttgc aaacctccta 240

acgccggtna aagcngtctt ctccgagcag acgggncggt gctactttgg aggttattca 300

gaagaangcg agcagagaag cctgaagttc gtgatgccgc tagagaanct gccctacgtg 360

agatcantga gagaatcaag gaagaccaan ggnccganga angaaggcaa agaanggtca 420

attt 424

<210> 2296
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-G3

<400> 2296

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cgtttcatcg catcttaant ccatctccgc cgtcgggtcc tgcgcggntc cgtcntgcat 120

gnacgccntc ntagactcgn tncanctttc nctcactact acgaacactg gtggatctgt 180

ttcatattcc tccatattct ctcgtttaat cggctccgct gcancggata ctgctgtgaa 240

gaagcgtgtt gaaagatgtg atgcctattg caaccggtca cgagaaagan gaactacaag 300

ccgaattggg aggggatgaa gctggacgat atanactttc ctgaagggcc ttttggaaca 360

aaggaagctc ctgctgtagt caaaatccta ctacgacatg anaatacttt ggtngcctgg 420

aaggtgg 427

<210> 2297
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-G7

<400> 2297

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cagatcttga gactgcgaca agagtacgag caaacactct tcttcctgga aaagccgtgg 120

tagttcctct tccttctact tgtccattac acaatgcaga aggaattaca catgtcatac 180

atgttctagg accaaacatg aacccaaacc gaccagacaa ccttaacaac gactacacca 240

aggggtgcaa aactctccgg gaagcttaca catctctatt tgaaggtttt ctatcagtag 300

tacaggatca atcgaagttg cccaaacgaa gcaagtcaaa cagctgtgtc agattctggt 360

gaggatatta aagnaagact ctgagagaaa a 391

<210> 2298
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-H2

<400> 2298

acgcgtgggt ctcactacca cgagctcttc atctccactt ccttctccga caacgcttcc 60

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gctgaagcat cggaatatgt tcgctctgtt ttcacctcct ctgctctcaa atcanacgtc 180

gttgcttacc aagtgtctct aacttaccca gttcatcgct ctttggtact aangccgaca 240

gactctgcaa agccaatcac tttcttgctg gnacaanaaa aactcggaga caatccttat 300

gctaatgaag tgatgcctac ttttcatgga tacgctaagt caggtaacgt ttcaggtcca 360

gtggtttaag canactatgg gcgagtggna agatttcgtn aagaactcca g 411

<210> 2299
<211> 388
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-H8

<400> 2299

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cagtggccgc cggcaggtgc gccgccnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ttttagttga caaccataat 180

cgtcctcctt atgacgagct gcggacaatc ttcatcgcag ggcttcccga tgatgtaaaa 240

gagagagagc ttttgaatct cttgagatgg ttgcctggtt acgaggcttc tcaggtgaac 300

ttcagcggag aaaagcccat ggggtttgct cttttctcca cagctcagtt tgcaatgggc 360

agncanaggt acccccttcag canaatgg 388

<210> 2300
<211> 377
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-A10

<400> 2300

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gaacttcang ggcgcagagg aaagcaaacg gggatattgg acagactgag aaaagctatg 120

aatctcactc atacagcctg agaaaagcct tgaaatctgc aatgtanatt acctaaaatc 180

ttgtttcttt tttttacttt atttggctgt aagaattttt gtaaattatt catatcttta 240

ggatctgaat ggttattggt tttcgtatgt gagatgtaag tagaaatctg tgtgaatagt 300

ttttgcgttt gatgtttctg gagaaatcaa tcaataaaat caatgttggt ggctttattc 360

acaaaaaaaa aataang 377

<210> 2301
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-A2

<400> 2301

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aggttaatcg aatatttcac tatttgcttt ctatctttct gctgcgaatc aatggcgcta 120

tggatggacg ctggagcgac gccgaccacg gagaaggaaa aggctgatct tgaagctatt 180

tctgctctca aagaatccac cgccatcgaa ttcaaagaag agggcaatga atgtgtaagg 240

aaagggaaaa agcattactc tgaggcgatt gattgttaca cgaaagccat tagtcaggga 300

gttctaagtg attcagagac ctctattttg ttctcgaatc gatcccatgt taatctactc 360

ttaggcaact atcggcgtgc cctcaccgat gctgaaggaa tcaatgaggt tatctcctca 420

taacgttaat gcggtgttac nagctgctaa ggcatccatg tcattgggat tttgctgaac 480

gangcaaagt 490

<210> 2302
<211> 443
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-A4

<400> 2302

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gggaaactaa gtcttcatga agacgatgaa gagatctttg gagtgttctc tttcatcttc 120

tggacattta cactcattgc tcttttttaaa tacgttttca ttgttctctc agcagatgac 180

aatggagaan gtggaacatt tgcgttgtac tcgcttcttt gtagatatgc caagctaagc 240

attttaccaa atcatcaaga aatggatgag aaactatcaa catatgcaac gggaagccca 300

ggagagactc ggcaaagcgc agcggttaaa tcattctttg agaagcaccg aaatctcaaa 360

agtgtttgtt gctctttgtt cttttaaggg acatgtangg ctattgggtg atagtgtcct 420

cactccaaca atctcagttc ttt 443

<210> 2303
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-A6

<400> 2303

angccatggg tttaggcatc ttancttctc gaananttcg accaancttc acgtcttctt 60

caatctcaaa cctccaattt cttcctcngc acaatcgtct caaaaccaga gctccaatct 120

cctgaatccg ctgctgtctc tgagcctgag ccgccgacac agattctccc tcctanaaac 180

cctgtangtg gagcacgcgt ccacttctcg aatcctgaag atgcgatcca ggtctttgtc 240

gatggttacg cggtcaaagt ccctaaagga ttcactgttc ttcangcttg tgaggtcgct 300

ggagttgata tcccgangtt ttgtcatcat tctcgtttat ctanntgctg gaaattgcag 360

ggatgtgtcc tggttgaggg ttgagaaaat ctcccaangc ctgt 404

<210> 2304
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-A7

<400> 2304

ctgttaactg ttgccacngc ccngtanaag tccaagaatt cccgggangt tgtatgcaca 60

ggttaaatgg ggtaatgttt tagtcanact gatcaacaag tttcgtaaga agctgtcttt 120

gaaagttcag tggaggccct tgtatgatac cttgattcat gctcatttca ncangagccc 180

gggtcctgaa ggttggaggt taagacaacn acactttatg gctgttacct ccctcattcg 240

ttcctgtang agatttttc cacaaggggc cgcatctgag atatggtctg aattcatgtc 300

tcttttggag aatccttggc ataattcctc gtttgagggc tctggctttg tganattgtt 360

ccttcctacg aaccccgaaa atcatgattt cntctccgaa aagtggataa naaacgttct 420

agagctctgg gattcaatac caaattgtca attttggnat antcaatgga catctgtact 480

anctcgcg 488

<210> 2305
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-A9

<400> 2305

tccccttttgt tatctgacaa cgggttggtc ccntttgcaa aagcntcctt atcacntgng 60

agtcctcagc ttgaagaatg ccacagggtt acccaatttg ggtttttttgg ntccctttg 120

aactgtggtg aaaagttgaa ggcnttctcn ctggtgaact gtntgagtat tagagatctc 180

accacaggat tgcctgcttc atctcattgc agcgctctgc gctctttgtc cattcgtaac 240

tgccctggct ttggngatgc aaatcttgca gccatctgga agttgtgccc tcagctcnag 300

gataatgatc tgtgtgggct caangggata acacagtctg gttncctana tcctgaatca 360

aaactctctt gtgaagatca actcagtggt tgtgccaatt tgactganac aagtgatctc 420

ctgccat 427

<210> 2306
<211> 430
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-B1

<400> 2306

gaacatttcg accggagttt tgagagagct cagagtgttt cgagtgtgtt atttggatct 60

gcgatctgat cgtctcgcat cgacgtgaaa ggttttctaa tccaattggt tctgtggaaa 120

tttggattcg gaggtttttg tttggnagat ctttctgcgg ttttcaccgc catggctgct 180

ccgtttttct ctactccatt tcagccttat gtctatcaga gtcaagaaga tacnatcaca 240

cctttccaaa ttttgggtgg tgaancacag gttgttcaga taatgttaaa accacaagag 300

aaggtcattg ctaagcctgg ttcaatgtgc tacatgtctg ggtccattga gatggataat 360

acttataccc ctgaacaaga agttgggagt tgtacaatgg attttangaa aagagtgtta 420

agtagtanaa 430

<210> 2307
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-049-Q1-E1-B11

<400> 2307

ggtnccggtc caaaaattcc cggggtccga cccacgccgt tcngntnccc cttngancaa 60

aattngtaac ctncggggna tncaaaaaan tccnattttt cctccaaccc cnaaattttc 120

agggagttcc ttnctnctnc ttttgaaaac cctttgtcat gagcnaattt ttancctccg 180

gtgtgttgag aaagatctca ttttttaagc tttaggattg agggagtttc gatttttact 240

tagcactttt ccttggaagt gatttggtgg gaactcatgg tgattgggtt tcttcctaag 300

gttattagag attgagttct ggatttttca cgcgccttgg gatttgannn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnctgtgt tgattaagaa tcn 473

<210> 2308
<211> 410
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-F11

<400> 2308

aatttccaag ctttacgttt tgtccctcac attacatcac tcggtgatgc tcttgtcagc 60

cgccttagaa acccgtcatg gagaagcaat aaggaacaga aaaatgttga tcatttagga 120

gacatgacca acccacacag aagacaagaa cccgggaagt ttgctgtgct tcatcttcgc 180

ttcgacaagg acatggctgc gcattcagcg tgtgattttg gcggaggcaa agccgagaaa 240

ctctccttgg cgaaatacag acaaatgatt tggcaaggaa gagtgttgaa ttctcaattc 300

actgatgaag agttaagaag tcaaggacgg tgtcctctaa caccaagaag aaatgggact 360

tcttttagct gctttcggat tcgataacaa tactcgtctc tatccttgca 410

<210> 2309
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-C4

<400> 2309

ntgttacgcc tgcaggtagc ggtccggaat tcacgggtcg acccacgcgt ccgcccacgc 60

gtccgcccac gcgtccgccc acgcgtccgc ccacgcgtcc gtggagagag aaaagggtta 120

gatacagaga gatagcgaaa gagaagaaga agaagaggtc tatcgacaga gcaaacttcg 180

tcaagagatc cgttaaaagg atccatttgg agctccgatt cgagctagag tcaataatga 240

gcggaagaca gagatctgtt gcagcggcgg tgcatcacca gaggcagctc tccgataacc 300

ctctcgatat gtcttcatcc aatggcagat ggcttcaatc cactggtctt cagcattttc 360

agtcatccgc caatgattat ggntactatg ctggtgggca aggaggtggt ggtcaagcag 420

canggangat aacaanaatg ctcagagaag gaaaacgagt ttctttgggg aaaccaanct 480

gactcc 486

<210> 2310
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-C5

<400> 2310

tcctggtgtg gtttcgtgtc gtagtcatta aaatctcatc tctctcactc tcagttccaa 60

taataccccct tcctatcaga gccaacacgc atccagcatc cttcatcagc ctttgcgtat 120

gaaaatgatg aaacttgaat agagatcatt cgtatttcat cgacgtttct aattcgcaat 180

cacaattgtt ttcttcaagg aattggtttg cttgctttga tcctcagttt tgtcaaaggt 240

ctttttttttt ttttcctgga cttgctaaaa tctcttgtgg cttttgctct gatacttgtt 300

agtttgggtt tcgtgagtct cgctttaaaa aggatatggg acanaagaga tgggntcttc 360

ntgtggggaa tttttgtttg nc 382

<210> 2311
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-C9

<400> 2311

agatgcgagt gagcttgcga attccatcaa acatccattc agaaacatct tgcagaaacg 60

acacaggcct cagctagtta tggctatttg catgccaatg tttcagatac tcacagggat 120

aaactccatt ctcttctacg cacctgttct gttccagaca atggggtttg gaggaaacgc 180

atctctctat tcatcagctt taacaggagc tgttcttgtc ctatcaacat ttatttccat 240

aggattagta gacagattgg gacgaagagc tcttctcata actggaggaa tacaaatgat 300

aatctgtcaa gtcatagtag cagtgatctt aggagtgaaa tttggagaca accaagagct 360

atcaaaaggg tactcagtga tcgtagtcat cttcatctgc ctctttgt 408

<210> 2312
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-D10

<400> 2312

acacaagttt tattttgttt tcttactata tataaatcac caaaagaaag taactttata 60

cacacgtcta ggtcgcacta ctattctttt aactacacaa tgatcggctc tttaattact 120

tttgtattga tgttcttcgt tttccttttg gtatcatctt tagatggtca gcgattgcag 180

caaaactgcc tggaagaacc gataacgaga tcaagaacgt atggcacact cacttgaaga 240

agagactcga agattatcaa ccagctaaac ctaagaccag caacaaaaag aagggtacta 300

aaccaaaatc tgaatccgta ataacgagct cgaacagtac tagaagcgaa tcggagctag 360

cagattcatc aaacccttct ggagaaagct tattttcgac atcgcctt 408

<210> 2313
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-D12

<400> 2313

aaattgaaaa caaatatatt tccacctgaa acaacataaa cagaatggaa ccttcaaaac 60

aagaagttcc aaagctcatg gagacaccac cgaacatatc aaacgattca tcagcaaccg 120

agaaaggaga agcaacaagg caacaacagc taccaaacaa taggtacgca ctcacagttg 180

acgaggtgat cgagcaacac attggagcac ttgggtttgc tcagatcttg catgctctct 240

tggtctctat cgcttggatc ttcgatgctc agaccactct tatatccatt ttctccgatg 300

ctcagcccgc ggcgaggctt cttgcaaccg gtgccatcgt ggagggtgcc tccttgtgtg 360

gattggccag tggagaatgg gaatggattg gaccaaagag tgacactgt 409

<210> 2314
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-D6

<400> 2314

aactgttcac gccnccaggt aacggtccaa gaattcccgg gtcgacccac gcgtccggat 60

agcttctcta gcagctcaaa tccgtccctt cacatgtttg gccgcgtctc tgccgtcacg 120

gttggcgcct catccaccag acctcatccg gtggatcaag cgagaaggcg gcttcgttca 180

ccacgcggtt aagctctctc aggagactca atttggtatc ggactcattt ccaccgagca 240

aatctctcca ggcaccgacc taatctctct ccctcctcac gttcccttac gcttcgaatc 300

agatgattcg tcatcttcat cgtcctctct cctctccgca ttgggccgtc ngtgttccct 360

gaaggaactg tnggcantga aattgggatt gangttgtta caagaaagga gccaatggca 420

gattctttct ggtgggccat acattaggca anctcccggg aaaacntaaa actgggtccc 480

anaaatcct 489

<210> 2315
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-D7

<400> 2315

agaaaccttg aaaatccgag acatccacaa tgccgccaaa gttggatccg agtcagatcg 60

ttgacgtgta cgtccgagta accgggggag aagtcggagc agcgagttct ctagctccca 120

aaatcggtcc gctaggtctc gcaccaaaga agatcggaga agatatcgcg aaagaaaccg 180

caaaggaatg gaaaggatta cgtgtaaccg tcaagctcac agtgcagaat cgtcaggcga 240

aagtgacggt ggttccatca agcagcagca ctcgtcatca aggcgttgaa agagccggag 300

agagatagga agaaggtgaa gaacattaag cataacggga acatctcgtt tgatgatgtg 360

actgagattg ctaggatcat gagacctaag attctaattg ctaaaggaat tggagtggaa 420

caagtga 427

<210> 2316
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-D9

<400> 2316

ttttgcaaac taacatccgt ctggagatca taccgggaag atacagttct ctcaccgatc 60

ataagtttcg tgcgccgtat cgaattaggt gcgccgccgc ttcaccggtg aaaaaacggt 120

ataacatcac tctgcttccc ggcgatggta tcggtccaga agttatatct gttgctaaga 180

atgtgcttca gaaagctgga tttctccaag gactagagtt tgatttccag gagatgcctt 240

tcggcggagc agctttggat ttggtcggag ttccattgcc ggaggaaact tccactgctg 300

ctaaacagtc tgatgccatt cttcttggag ctatcggagg gtacaaatgg gacaagaatg 360

agaaacatct gaganctgag atgggtctgc ttaacat 397

<210> 2317
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-E1

<400> 2317

ttctattgat aaatttttata tcaaaaacct taaaaagttt cattggttta caaattttac 60

ctttttttcgt tgtgtgttgc gtgtgttact aaatcactga agagggtaaa gagaaaaaca 120

aaacaaaaag ttcttagctt tggatgaatc tggaagtgat ccaaaacact ggcttattcc 180

actcctcttc tctagggttg aattgttagt taatagatgg cgacacttca ggatattggt 240

gtatcagctg ggataaacat tctcagtgcc tttgttttct tcataatctt tgcggttttg 300

aggcttcanc ctttcaatga tagantttac ttcacaaaan ggtatcctca aggggttaag 360

aagcagccat gnncatggtt aacgccatcn cagat 395

<210> 2318
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-E11

<400> 2318

ggattcagat ctatacgacg aaactgaatc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnctggtaat gctactgatc 120

gtcaccgtga agctgagctt gatcgcttcc ccttgtgaac tgatctgatc tgagagttgt 180

ttctgtttcg taatctgtga atatgctgac caagttcgag accaagagta accgagttaa 240

gggtctgagt ttccacccta aacgaccatg gattctcgcg agtttacaca gtggtgtgat 300

ccagctctgg gattatcgta tgggtacttt gatcgacaga tttgatgagc acgaaggacc 360

tgttcgtggt gttcatttcc acaactcana gcctttattc gtctc 405

<210> 2319
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-E3

<400> 2319

atgtacctca agcattgatg aacagaaagt tgatatctct tgatatgggt gctctcattg 60

ctggagcaaa gtatcgggga gaattcgaag acagactaaa agctgtgctt aaggaagtca 120

cagactcaga aggccaaatc attttgttca tcgatgagat ccatacagtt gttggtgcag 180

gtgcgactaa tggggccatg gatgctggta atctgctgaa accgatgctg ggccgaggcg 240

agttacgttg tatcggtgca accacgcttg atgaatatag gaaatacata gagaaagatc 300

cagccttgga gcgtaggttt caacaggttt atgttgatca acctacggtt gaagacacga 360

tttcattctc ccgtggtttg cgggaaaggt atgaactaca tcatggggnt cgcatcccac 420

aaa 423

<210> 2320
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-E4

<400> 2320

ctgttacgcc tnccggtagc cggtccnaga attcaagggt cgacncacgc gtccgcccac 60

gcgtccggag ctcgctgctt acttcactca ctgtaaactt caaacacctc acctacggct 120

cgcgtacttc agtgcaatga ccgtctgcta caagtcaaag aacatggcta ctgctgctca 180

cttcgccaga agtttgttgg atacaaaccc aactattgag agccaggcca ggacggctag 240

acaagttatg caagcagctg aacgcaacat gacagatgca acaacactca actacgactt 300

tagaaacccg tttgtgatat gcggggtcca cttatgtgcc aatctacaaa ggacagaaag 360

acgttgcatg tccttactgc actgcccggt ttgtaccaag ccangnaagg taacattttg 420

ctcgggtctg tgatncttgc ngtcatttgg cgcangacgc catcctgg 468

<210> 2321
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-E6

<400> 2321

gaatcagaag gagaatccat gataatccat agttaggtta tgaggaagta gagacatcta 60

agcttgttan agcagagttg gagaacatgg gtgtttctta taagtaccca gttgctgtna 120

cnggtgttgt tgggtatgtt ggaactggtc atgctccttt tgttgcttta agggctgata 180

tggatgcact tgctatgcan gaaatggtgg aatgggaaca caagagtaag gttccaggga 240

agatgcacgc ttgtggacat gacgctcaca ctacgatgct tctcggtgct gcaaaattgc 300

tcaaagaaca tgaagaagag ctacagggca cagtggttct aagttttcca accagctgan 360

gaaggaggag gaggtgcaaa gaanattgtg gaggctggga gtgttggaag aatgt 415

<210> 2322
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-E8

<400> 2322

gttgcatcct cgtttctttg gtcgtaacct aaaagaaaac ctcgtatcta agctcatgaa 60

agatgtcgaa ggcacttgca gtggccgaca tggatttgta gtggcgataa ctggaataga 120

tacaatagga aagggtttga tcagagatgg gactggtttt gtcacctttc cagttaaata 180

ccaatgcgtc gttttcagac ctttcaaagg cgagattttg gaagctgttg tcactttggt 240

caataagatg ggattcttcg ctgaagctgg ccctgttcag atttttgtgt ctaagcattt 300

gattccagat gatatggagt ttcaagctgg agacatgcct aactatacca catcagatgg 360

atcaagttaa gatccagaag gagtgtgaag tgagactaaa gattattggn acaaag 416

<210> 2323
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-048-Q1-E1-E9

<400> 2323

gatttcacac caaatcctga tttcctcaag aagactgttc ctcatttcaa gggtaatcca 60

agagctaggg ttggtccaag caaggtggtc atttgtgaac aaagatgaga atctcctcac 120

gaggctacaa aacataaact tatgtttcca cttcgaagta gaacaacaag tgaacggtgt 180

gtttctcaat ttcttcggat tcaatggaac cgctggagta tggaggatca aggcattgga 240

agaatccggc ggatggctcg agagaaccac cgtggaagat atggatatcg cggttagagc 300

gcatctcaac ggctggaagt ttatttacct taatgatgtt gaagtcactt gcgaagttgc 360

cagagtctta tgaagcttac aagaagcaac aacatcgttg ggngt 405

<210> 2324
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-C12

<400> 2324

acgcgtccgc ggacgcgtgg gattctgaat tcaagatgta tgttacaagg catctctccg 60

aataccagag aaactcgtcg gacttgacac gatcgttgcc ggaaggtcca aactccggcg 120

tacttgtgat tcaagacgaa gagtcaaaac cgacttgttg ctttggaaat tgctacgatg 180

gtgaactcaa aggcttaccg ttcccacaga acgcaaagct gactgtgact tacagaaccg 240

gaactggtaa tgacaggcgc agttaccatg accaggttct gttcattccg gttcttgatc 300

agccttatta ttcgaaccgt tattatgtca ttaaacgacg tgggaagcaa tcaggaggag 360

cttcggcgag tgcaaaggaa gaagacagag tcccctgctg cttttgct 408

<210> 2325
<211> 492

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-F4

<400> 2325

aactgttacg cctgccgtag ccgtccnaaa ttccngggtc gacccacgcg tccgattcta 60

atcttaattc ttcataaacc ctaactttat taatcccttt tttagtttca tctttaaaaa 120

catttgtttt cttgaaaatg tcggaagaat tcgacgaatc tgagatcatt ttctctgaca 180

attactttcc gattcgccgg cgagaagacg gtaacgagaa agagaataac cgtccggtgg 240

atttccggga aaattctgag agagtgtgga acaagtcatc tagacggagt aaaacgacgc 300

cgttgccttc agcggtgacg gcgttttcta gttcgcttcc ggttaacata ccgatgagga 360

ggtattcgac ggaggaggaa tattccgatg acgacggang aaggaaaatg attccgccgc 420

atttgatagt tgggcggang atggaaagan gtcaaatggg cgttttccgt ttgtacaggt 480

aaccggaaga ac 492

<210> 2326
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-F8

<400> 2326

acgcgtccgg tttcaaannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnaatcaa agatgcgaga gattcttcac atacaaggtg gccaatgcgg 120

aaaccagatc ggagctaagt tctgggaagt agtttgcgcc gagcacggga tcgattcgac 180

gggaagatac caaggagaga acgatttgca actcgaacga gtcaatgtct actacaacga 240

agcgagttgc ggaagattcg tcccacgcgc cgtcctcatg gatctagagc ctggtactat 300

ggatagtgtc agatccggtc cgtacggtca gatcttccgt cctgataact tcgtatttgg 360

gtcaatccgg tgccggtaac aattgggcta aaggacacta cactgaangg gctgaactta 420

ncgaatccgt tcccgangtt g 441

<210> 2327
<211> 373
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-046-Q1-E1-F9

<400> 2327

tgctccttat ctcagcttgt tgaatttgcg aagtatggga gacgctagag acaacgaagc 60

ctacgaggag gagctcttgg actatgaaga agaagacgag aaggtcccag attctggaaa 120

caaagttaac ggcgaagctg tgaaaaaagg gtacgtggga atacacagtt ctggattcag 180

agacttcctt ttgaaaccgg agcttctcag agctattgtt gactcaggat ttgaacatcc 240

atctgaagtg caacacgaat gtatccctca agctatcttg ggtatggatg ttatctgcca 300

agcaaagtct ggtatgggga agactgctgt gtttgtcctg tctactctac aacaagattg 360

aaccatctcc tgg 373

<210> 2328
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-G1

<400> 2328

ctgttaccct nccgtagccg tccgaaattc cagggtcgac ccacgcgtcc gaaaaatccc 60

taaatctcaa caaaacccta atttcaagga agacgaagaa agaatgagtt acagagtcgc 120

taaagcatcg cagtatcttg cgatcaccgg tggtgggatc acagacatca agcttgcaaa 180

gaagtcttgg gtgtttccat ggcagtcttg caccgtcttc gacgtttctc cggtgaacta 240

cacgttcgag gttcaagcta tgagttccga gaaacttccc tttgttattc ctgctgtttt 300

cacaatcggt cctcgcgttg atgatcctca cgctctcttg ttgtatgcca tgcttatgtc 360

tcaacacgat aagcactcga atcacgtcaa tgagcttgtt canggtgtta tcgaaggaga 420

gaccgtgttc ttgttgcttc catgactatg gaagaagtcn tcaaaaggaa caaaggagtt 480

aaaaaaggaa 490

<210> 2329

<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-G10

<400> 2329

ggatccggtg attgagccgc cgttgttggt ggtaaacaca gtcttatctg tgacggctct 60

tgactaccca ccggagaaac tcgccgttta tctctcagat gacggtggtt ctgagctgac 120

gttctatgct ctcacggagg cagctgagtt tgctaaaact tgggttccct tctgcaagaa 180

gttcaacgtt gagccaacat ctcccgctgc ttacttgtct tccaaggcaa actgtcttga 240

ttctgcggct gaggaggtgg ctaagctgta tagagaaatg gcggcgagga ttgaaacggc 300

ggcgagactg ggacgaatac cggangaggc gcgggtgaag tacggtgacg ggttttcaca 360

gtgggatgct gacgctactc gaagaaacca tggaaaccat tcttcaa 407

<210> 2330
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-G2

<400> 2330

caattgaaaa aaaaaaaaaa attcaaccca aagctctgct tcgttgagct aaaacaatgg 60

cggaaacaac tcccaaagtg aaaggccacg tcgtaatctt accataccca gttcaaggcc 120

acctaaaccc aatggttcaa ttcgctaaac gtctagtctc caaaaacgtc aaagtcacaa 180

tcgccaccac tacctacacc gcctcctcaa tcacaacacc atcactctcc gtcgaaccaa 240

tctccgatgg attcgatttc atccccatag gtatccccgg tttcagcgtc gatacttact 300

cagaatcctt caagctcaac ggatccgana accctaactc tcctaatcga gaaattcaaa 360

tccacagatt caccaatcga ttgcttaatc tacgattcgt ttcgtccctt gggggacttg 420

aagttgctac attcnatgg 439

<210> 2331
<211> 450
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-G3

<400> 2331

acgcgtccgc tttcataagc tgaagattga attataccac attgctctat atcatctcga 60

gaaattaaag gaagctcgtg acaaggctgc ggattctgat gaagttcana aatgcgacag 120

tgaaatcgag gatctgcaaa acttgctgaa caatgatgtt ttgatcagtg gagtcaacct 180

agaaagtctt caaccaggat cttctggcat gactgaactt tataaggctc tccaggagcc 240

aaagtttcga gaacttgatt cagaagatct cctgacagag agattgttat cagcagagaa 300

ggactggaaa tcaacaatcn aactactcaa acacgccaca ctgaccctga agatcataaa 360

cttgggttct cttgagcaac agtcganata cgcttcaact tggtttgaaa nttcttcgac 420

ctgtgctcaa gaaattgcga catgctgcat 450

<210> 2332
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-G4

<400> 2332

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actctctcca tcaccaccat aaccattgat tctactgtgg aaaaaataga aagttccaag 120

ctttttctca aatggttctg atttaagtaa gagtgaagaa aagtaaaaat agagtcagaa 180

atggagaanc agaggagaga agaaagcagc tttcaacaac ctccatggat tcctcagaca 240

cccatgaagc cattttcacc gatctgccca tacacggtgg aggatcaata tcatagcagt 300

caattggagg aaaaggagat ttgtttggga acaaggatat gagtggtctt gatcacttgt 360

ccttttgggg atttgcttgc tctagctaac actgcatccc tcaaaattct cctggtcaga 420

ctccagtanc ctacaa 436

<210> 2333
<211> 449
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-G6

<400> 2333

tctctcaatc caacaaagaa aaaaaaaagt cttcttcttt ttttacaagt ctgagaattt 60

tctacagaaa caaaaatctg attgtttttc ccactttgca tctgttttga ggatgccagc 120

tacggatttt caaggatcat ttggaaggtc gttgctaagt ttacggcgag accaagttga 180

ctcatcaanc agtcgtctcc ggaagtagta gccaccacga gncanncacc anggaggttg 240

agctanattc gtttcanatg acaaagttcg ctgagaaatt catcggatct caacgcttct 300

tcaagacgaa cttctcactc gtcnaatggg atngggaaaa gcttcntgan tccttccctc 360

nggttgtnca aggaagaagt tttgaagcta ncngtattca nccnaccgna tttcagattt 420

gcgnaatcct ccaatgggcc cgtttgant 449

<210> 2334
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-G7

<400> 2334

acgcgtccgc tttttccggt gtggctgggg ctggtctttg cactgactac tggtttttgt 60

tcaagcaggg accatttttt cacgacggaa tgaaagagtg gagctgctgc aagcaaagaa 120

gtcatgattt cagtttgttc ttggaaattc caggatgtaa aacaggtaaa cacacaactg 180

agaaaccagt tctggccaaa tcggttccaa aacatcctgt tgcggctcct acttcatctc 240

caagatgcca atgcagcaac aaaagactct tgctccagat gccggcaagg cttcttctgc 300

tcagaccatg gatcccaacc caaagaacag atcaagcaag accctgaaca caccgggaca 360

agcagaagaa gaaaaaatga acccttaacg cctccagtac aaaangctgt gatagacatt 420

aatcaaccgc aagtctgcaa aaacaa 446

<210> 2335
<211> 501
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-G8

<400> 2335

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ccgcccacgc gtccgagctc caatcaatct ttcggatcgt ctccatcaag ttcttcgatg 120

ggcgcttggg tcggttgaga ttttcttgag taggcattgt cctatttggt atggttatgg 180

aggtgggttg aaatggcttg agcggttgtc ctacattaac tctgtggttt acccgtggac 240

ctctctaccg ctcatcgttt actgttctct ccctgccatc tgtcttctca ctggaaaatt 300

catcgttccc ganattagca nctatgcgaa gtatcctctt catggcgctc ttctcgtcga 360

ttgcaataac gggtattctc gagatgcaaa tgggggcaaa gttgggatca atgattgggn 420

gganaaaacg annagttttg ggtcattgga agngtttcct gcgcatccng gtttgctcct 480

ccttccaaan gtctcctcaa a 501

<210> 2336
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-H1

<400> 2336

aactgtttac gcctgccggt accgcgtccg aaaattcccg ggtcnaccca cgcgtccgcc 60

cacgcgtccg gaggtaccag agtagaactg ggtaccacaa catgtacaag gagtaccgtg 120

acaccactct taacggagct gttgagcaga tgtacactga gatggcatcc cgtcaccgtg 180

tcagattccc ttgcattcag atcatcaaga cagccactgt cccagccaag ctgtgcaaga 240

gagagagcac taaacagttc cacaacagca agatcaagtt cccattggtg ttccgcaagg 300

ttagaccacc aagcaggaag ctgaagacga cttacaaggc caacaagccc aacttgttca 360

tgtaaaacgt ctctgattga ctctttttg gggtggaatc gatgttgaag ctgtgctctc 420

tcccgttttg ggattttatc ggttattttt gtttttcaat atgttaagcg tactcatgaa 480

tgtgaactcc nactttgtcc a 501

<210> 2337
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-046-Q1-E1-H10

<400> 2337

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tgtactctca gtttttggaa tcttacaaaa gtgtgacagt tgaagcaatg gcaaaggcct 120

ttggcgtttc tgtcgatttc atagaccagg agttgtcgcg cttcattgct gctgggaagc 180

ttcactgtaa gatagacaag gttgcaggtg ttttggagac aaaccgtcct gatgcaaaga 240

atgcacttta ccaggcaaca atcaagcaag gggatttctt gctaaaccga atccagaagc 300

tgtctcgtgt gatcgatctg tgagcatgct acatgtttct gtttcactct ttcgtcaagc 360

tttgcaactt ggaaactccg aacggtagaa tcttaaaggt ctgagaaa 408

<210> 2338
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-046-Q1-E1-H11

<400> 2338

aagccatcat ggtttactat ggtaccaagc ctctttatac cttggatttg cagcttcaat 60

aatatgggtt ggtcagggaa cataccttac atcaattgcg agaagccatg ctacagatca 120

tggcctgcat gaaggttcgg taataggtgt cttcaatggg gaattttggg ctatgtttgc 180

ctgccaccag ctgtttggga atctcatcac acttgcatta ctgaaagatg gaaaggaagg 240

aagcaccaag tggcactacc ttattgatgt tggtgtttct cttcagtatg acattaggaa 300

caatacttat gttcttcatt cggaaaattg atggagaaga tggaaaagga cctgtgggtt 360

ctcctgtggg cttagttgat tccttggcat ctcttccaag ggatgata 408

<210> 2339
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-F3

<400> 2339

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnta gagatcctct gttttagcaa cccaagtgtc caccgaactc ttttctcact 180

ctctcggaat ttcaatgtcc gagcaatgat catcgatttc ttctgcaccg ccgttttaga 240

catcaccgct gacttcacgt tcccggttta cttcttctac acctctggag ccgcatgtct 300

cgccttttcc ttctatctcc cgaccatcga cgaaacaacc cccggaaaaa acctcaaaga 360

cattcctaca gttcatatcc ccggcgttcc tccgatgaan ggctccgata tgcctaangc 420

ggtgctcgaa cgaagacgat gaggtctacg atgtttttaa aatgttcggg taaacaagct 480

ct 482

<210> 2340
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-046-Q1-E1-C8

<400> 2340

acgcgtccga gcattcacat gagaccttgg attggatttc agtcatggcg tgctgctggt 60

aggaaggtct cgttatcatc taaagctgaa gagtctctgg aaaacattat aaagcaagaa 120

acaaaggggg agattattta cttctggaca agattagaca tcgatggtga tgcgtatgga 180

agtaaaaatg ctcttacatt ctggtctatg tgcgatatcc ttaaccaagg aaactgcaga 240

accacttttg aagatgcatt ccggcatatg tatgggttac cagaacacat tgaagcgctt 300

cctcccatgc ctgaagatgg tcatcactgg tcttctctcc acaattgggt gatgccaact 360

ccgtctttcc tcgagtttgt catgttctca aggatgttct cagaagtctc ctaagatgca 420

ctgcacaaca atcttaacga ctcc 444

<210> 2341
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-C9

<400> 2341

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ggattactac aatacacaac ataccaaatg aaattgtatt tctgttgaac tttatgcatc 120

catagttata tatatttacc agaaatcaag caagttgagg aaatcatcca aggcttttgt 180

tttgatggag gaaaacccgc atcgagtttc acgtagaaac catggcggga cccactgtca 240

aaacgacgcc gtggacgaag agaaccgtcg acgacggcat aaccaccaca ctcacggcga 300

cgaagtcaaa tgctccagta agagatgccg atcgtgggcg gctgcggcga ttgctgactg 360

tgtagcgctt tgttgctgtc catgtgcgat natcaacctt cttact 406

<210> 2342
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-D1

<400> 2342

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tggttccttc agtttgattt taaggcaatt gaggcagcaa cgaattgctt tttgccaatt 120

aacaagctaa gtcaaggtgg tttcggcgaa gtttacaagg gtacattgag tagtggacta 180

caagttgcgg tgaagagact atcgaagaca tcaggacaag gtgaaaaaga gtttgaaaac 240

caagttgttg ttgttgcaaa gctccaacat agaaatttgg taaagctgct tggttattgt 300

ttggaaggag aagaaaaaat acttgtctac gagtttgtgc ccaacaagag ccttgatcac 360

ttcctctttg actctacgat gaaaatgaan ctagactgga caagaaggta caagatnata 420

ggaggaantg cctagaagga atccttaacc ctcatcaaga ttcacgactc acaaattatn 480

ccatccaaga cctcaaagc 499

<210> 2343
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-046-Q1-E1-D12

<400> 2343

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cgattgtttt ttttaatcgt ttcttcattt ctgattcatt tttcttggtt tatgatctgt 180

tcaagtaaag gaacaatctt aatcgctaga ggtaaaaatt caaatacaat ccctagatta 240

cccctaaaag ggtcatccac aaattacgcg aatcgaattc aaattcgaaa cccaatcagt 300

gtcaaaactt tccggcgatc atcttcatcg tcaatggcgg tggaaacaat gtcgatggga 360

tcagattcat caactttgat tctaacatca aggagcaagc ggtcgc 406

<210> 2344
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-D2

<400> 2344

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aacctttgcc aaaatgaaga agggagttcg aattgttaat gttgctcgtg gaggtgtcat 120

agacgaagat gcgttagtga gagctctgga tgctggtatt gttgcgcang ctgcacttga 180

tgttttcacc aaagagcctc cggctaaaga tagcaagctc gtgcagcacg anagggtcac 240

tgtgacacct catcttggag ctagtaccat ggaggctcag gaaggagttg ccatcgaaat 300

tgctgaagct gttgttggag ctctgaatgg agaacttgct gctactgcag tcaatgcacc 360

tatggtttct gctgaagttc tgaccgaact gaaaccatat gtggtgctaa ccganaaact 420

aagaagactg ggcaatgcaa ctgggtggcc ggaaggaaac cgtgtnaaaa aacgcca 477

<210> 2345
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-D3

<400> 2345

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ctagaggccc caancttgtt tgagcgcatg gtaacaactt tgtctaaaat tgctcaaggg 120

tctcagagtg ctgatccaaa tcctgccatg gcttcgcaga cagcttcggt taaaggttca 180

tcccttcagt gcctggtcaa cgttcttaaa tcactagttg attgggagaa aataaggaga 240

gaggcagaaa atagtacaag aaatgcanac gaggactctg cntctactgg agagccaatt 300

gaaaccanaa gcagggaana tgtcccaagc aactttgaga angctaaagc tcataaatcc 360

acaatggagg ctgccatctc cgagttcaac aggaattcag tgaaaggtgt cgaatatcta 420

attgcaaaac aagttggttg aaangaatcc tgcttcagtt gcacagtttt ctganaaagt 480

actccaatcc 490

<210> 2346
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-D4

<400> 2346

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atttttaggg tttttgtttt ctctctaaat ttntattgtt atcttcttcg cgataccttg 120

gaatcgcatc tctgagatag ataaataatt ctgattcgta tctttaaatc ttgggttcnt 180

cttcttctcg cgattcgttt aaaagagcag catcaatgaa ncagaatctt catgtantat 240

caatggattc gttaccagtt ggattaagat tccgtccaac agacgaggag ctaatccgtt 300

actatctccg tagganaatc aacggtcacg atgacgacgt caaagctatc cgtgagatcg 360

atatttgcaa atggggaacc ttgggattta cctgattttt cctggtgatc aaaactaaag 420

actcagagtg gctctacntc cggtccaatg gga 453

<210> 2347
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-D7

<400> 2347

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gcggagactg agagcagcag cgacgagctt catcggccgt cgtctccgac ctcactcgcg 120

atctccgatt acaaaaatta gatcctcgat taagaattcg aaacatcaaa atttcatcaa 180

caaaaaaaat cagttactgg atttacgttt cgtttgcgtc acagatcaga tctccatgat 240

cccttatccg ctttcgttgc ggttccttaa accttgatgc aacggtctaa tgcncgttcc 300

aggtcgaata tcaattcang atatggtaag atcctcccga ggttcaagac ttcacctggc 360

aaccaccgat catcgccgtc caccgccgcc aaacccaagt cgaaacgaac anaatcgatt 420

atcttcgtaa tcgtcgcttg tgtaactatt gccttgggtt taataatcaa tggntaattc 480

anttttacgc tccgggg 497

<210> 2348
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-046-Q1-E1-E10

<400> 2348

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tgctaacgaa gggaagagag agtacgagga ggttgtgcaa gagtgccacc gtgctctctc 180

catcgaatat ccgattgatc ctgctagaga gagtcttcag gatgagactc agctgaagat 240

attgacacct gaggctcgta ttgctcattt ccaggatgag ctcaggtcac tgatacagaa 300

gtctaacatt tattcattgt ccacttggat gcagaccttg ggaaatggtg aagaagaaat 360

ttaaggttga ttcctcttag gagaatgggc cgaaggattc tattggagag t 411

<210> 2349
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-046-Q1-E1-E3

<400> 2349

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gaaacagaaa tcatctaaga gacgattaag agaaaactaa gaacgataac tctcgccttc 120

gattcttttt gttgattgag gcgcaagcta cctgcacaca atggagaaca atcgagaggg 180

accatactct gttctaacga gagatcaact taaaggaaat atgaagaagc agatcgccga 240

aatctctgag atcttctcgt tatcaaaacc cgatgcgacc gtactcctca tgtttctccg 300

atgggactct catgaagttt ctgagttttt ggttgaaaac aacgaaaaag tcttgtcgga 360

atcaggtttg aaaccagtgg taagttgatc cgaatcaaga cttatataag atttcttctt 420

gtgggatttg ctttaagact tgtgatgatg gtgattactt aatctccacg ccctttggc 480

tctcacatgt tctgc 495

<210> 2350
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-E4

<400> 2350

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gtcagtgctc tcttaggtgt aaaggaattt gaggccagat ggataggatg ggctggagtt 180

aatgtgcctg atgaggttgg acagaaggca cttagcaaag ctttggctga gaagaggtgt 240

attcccgtgt tccttgatga agagattgtt catcagtact ataatggtta ctgcaacaat 300

attctgtggc ctctgtttca ctaccttgga cttccgcaag aagatcggct tgccacaacc 360

aagaagcttt cagtcccaat ttgctgcata caagaaggca aaccaaatgt tcgctgatgt 420

tgtaaatgaa cactatgaan aaggaaatgt cgtcctggtg ccatgactat catcttangt 480

tccctcctaa aa 492

<210> 2351
<211> 432

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-E8

<400> 2351

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ctcatttggg tttttcattt tgaaaagaag gacccatttt tatctctctc tttgttttgt 120

tttctcgaat ctgaaggagt aaagttaaaa gctttgaagg agagaatcaa tggcgggtta 180

cagagcanat gatgaatacg attacctatt caaggttgtt ctgataggtg attcaggtgt 240

gggcaaatcc aatttgcttt cacgattcac gaagaacgag tttaagtctc gagtcaaaat 300

ccacgatcgg ggtcgagttc gcgactcgga gtttgaatgt tgatgataag agtcatcaaa 360

gctcagattt gggatactgc tggtcaaaga aaggtancga gccatcacta gtgcgtaata 420

ccgangagct gt 432

<210> 2352
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-046-Q1-E1-E9

<400> 2352

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tcttctccgg gtcaaactga actcggatct ggtttcagta acaagcaaga aagatccggt 180

ttcgatggtg aagattgctg gagaagttca aagctctcac gaacatcaac tgatggattc 240

tcttcttccc ctgcctctgc taaaacgctg tcgtttcatc aaggcatccc tttactgaga 300

tctaccacta ttaatgatcc tcgtaaagga caagaacaca tgcttagctt ctcttctgct 360

tcaggcaaat caagatgtct caccttatct tcagtactgt agaaa 405

<210> 2353
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-F11

<400> 2353

aaaaaaatca tggagatgac cgaagcttcc aaacagacaa cagcagaagg atcagcaaat 60

ccagaaccag accaaatctt gagtccgaga agatcgttgg agctaaaaca aaagaaatgg 120

tggatctctg tttctttatg tattttctta gtcttgctcg gagattctct agtcatgctt 180

ctcttgaact tcttctatgt tcaagacaat cgagaagata gtgaccaaga tctacaatac 240

cgaggaacat ggttgcaagc tctggtccaa aacgctgcgt ttccactact cattcctctg 300

tttttcattt tcccttcacc aaaacaaaac caagaaacca ccaatactcg tttcctctct 360

tttcgtctca tcttacttta catctctctt ggtgttcntg ttgct 405

<210> 2354
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-C7

<400> 2354

ccatccagcc gccactggtt ccttcagttt gattttaagg caattgangc agcaacgaat 60

tgctttttgc caattaacaa gctaggtcaa ggtggtttcg gcgaagttta caagggtaca 120

ttgagtagtg gactacaagt tgcggtgaag agactatcga agacatcagg acaaggtgaa 180

aaagagtttg aaaacgaagt tgttgttgtt gcaaagctcc aacatagaaa tttggtaaag 240

ctgcttggtt attgtttgga aggagaagaa aaaatacttg tctacgagtt tgtgcccaac 300

aagagccttg atcacttcct ctttgactct acgatgaaaa tgaactagac tgggcaanaa 360

ggtacaagga tnataggagg aatttgccta gaggaantcc ttaancntca acaagaattc 420

acgactccca atttatacat ccangacctc c 451

<210> 2355
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-H3

<400> 2355

acgcgtccgc agcattctga ccctagacac agagtcctcc ggtcttctga taaaccccca 60

tgtggaaggc caagacatgc ttccgtcaga tttacttgac cgtactaata cggcggtact 120

cgagagtcgc tccgccgccg tcttcggtga tccgcgtgac aaacaacgta gcacacctgg 180

gaccaccgaa gcaaggacca ctgccacgtc agctgatatc cctgccgcca tttcccggtc 240

atccattacc tggcaaaaac gccggagctg acggcgacga tggagatagc ggcggccacg 300

tcacagctat aagctgggtc aagtactatt ttgaagaaat ctatgataag gctattcaaa 360

ctcatttcac aaaagggcct tgttcaaatn gaattttcga ngtcntaagg gatgcctcaa 420

gaganaaaga agatgggagc tattcctatg 450

<210> 2356
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-H5

<400> 2356

ccgtttacgc cngccaagta ccggtccaag aattcccggg gtcgacccac gcgtccgcgg 60

acgcgtggga tttattggga attccacatc gatccaagag atgtttaggc gggtgagcga 120

gcagttcact gctatgttca ggaggaaagc tttcttgcat tggtacacag gtgaaggaat 180

ggacgagatg gagtttactg aagctgagag caacatgaac gatctagtct cagagtacca 240

gcaataccaa gacgcaactg cagatgacga aggcgagtat gaagaagacg aggatgaaga 300

agagatattg gatcatgagt gagtgaaaag agctgatatt accgattttt aaatacctct 360

cttatcttct tttcgtttgg tcggtatatg tttattgagt tccatgtatt gtttgtgatg 420

ggtccgtgtt gtaatagtga gggtcggntc naaactttaa gccgtggttt taaatgaaaa 480

ttgtccaat 489

<210> 2357
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-H6

<400> 2357

actactctct tttcctcccc attttagagg ggttgacttg gacgaggacg aaggacaaga 60

agtggtaaac agaataatgt tatgccaaac acttgggatc ttgaggaatc ttgactagat 120

ggatctgaaa ctcttgagtc ggccggattg ggatcaagaa tcttacccag attcttctga 180

tttcttggtc ctcatcttct ttgctccatt cttccttttt cttcgcttaa tcctcgacag 240

atgcatattc gagagggtcg ctagaagact ggtagttcct aaaggactat gtgctgattc 300

aaacgagaga agaaagaagg tagtgaaatt caaagaatcc cgcttggaaa tgtttgtgct 360

ccttctcggt ggaagctttt gctcctctac gttacttata anggagccat gggtttaaag 420

acaccaagat tct 433

<210> 2358
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-H8

<400> 2358

ggagaaacac tttccgtggt ttagtgttga ggacgatcac tgtttgtaat tcgatggcga 60

ggaagaagat cagagaatat gactccaaga gacttctcaa ggagcatttg aagcgtcttg 120

ctaatattga cctgcagatt cgctctgctc aggtgacaga atctacggat ttcactgagt 180

taaccaacca ggagtcatgg ctatcgtcca caaagctagt tgtgaaaccg gatatgctat 240

ttgggaaacg cgggaaaagt ggtttggtag ctctaaagct ggatcttgct gaagttgcag 300

actttgtcaa agcccgcctc ggcactgang tcnagatgga gggatgtaaa agcacctatc 360

actacattca ttgtggaacc ttttgtgcct catgatnaaa gaatactacc tctctatagt 420

atctgataga cttg 434

<210> 2359
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-A1

<400> 2359

acgcgtccgg caatcnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnatta acacaaaaaa 60

ttatggagca caacaaggtt gatacagaac ctcaagattc atatgatgat caacaaaaat 120

gggttctcga ttcttcgacc gatagtagag gagagattcc gcttcgggct caaaccggag 180

cttggagagc tgcactcttc atcattggta tcgaattcag cgagaggcta agttactttg 240

ggatctccac gaacttagtg gtctacttga ctaccattct tcaccaagat ctcaagatgg 300

ctgtaaaaaa tacgaactac tgggtctggt gtcactactt tgatgcctct tcttggangc 360

ttcgtcgcag atgcttatct cggccgttat gggaactgtc ctacttgcaa ccancantta 420

ccttaatggg cttgaatccg tttaacattg gcc 453

<210> 2360
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-A10

<400> 2360

gggcggacgc gtgggctcaa gcttcctgga caagcaccat catctcgatg tggtcataca 60

gttacatctg gaggacatta tcttctgtta tttgggggac atggaactgg tggatggctg 120

agtcgttatg atgtttacta taatgatact ataattttgg acagagtaac tgctcagtgg 180

aagcgcttac caatnaggaa tnancctcct cctcctccan cttancaaan caagacttnt 240

attggagctc gtcatctttt aatttgtggt tttgatggaa aattgacctt cngtgatctc 300

tggtggttaa ttcccgaaga tgatncgata gccaagangg tcctccggtg cctcaagttg 360

ttaaaccccc ctgaaattta agaatccaga naaga 395

<210> 2361
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-A11

<400> 2361

taatcttgtt tctcttcatc ttccattgac gtttccttct atcctcgttg ccttcatttt 60

tcactcgcac gctaatcttc gcctactttg ttagattttc ggttttgggt ttttgtcttt 120

tggtcgattt cccctgttcc cagaatctcc gattaagctg cttccttaat ctcntgtctg 180

aataaacttt ttccgggggt gtaatttana nangtggtta aaattacgaa gtagtgagag 240

gagtgttgtt gctgttttgt ttattcggta aaacgaaatc ggaagttctt tgttgtcgtt 300

tgattccttt tgagaaagag agatgttggg gaactgggat tttaacttca ctcaagcttc 360

aagaagagct caaattgacg tccncttaag ggctggcaag attcgaagtc 410

<210> 2362
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-A3

<400> 2362

cggtaggcct ccgaaaattc canggtcgac ccacgcgtcc gcagtaaaat ggccaaaaac 60

tctgtcgaat tcgatcgtta catcgagcgc aaagctttcg acaatacaaa agaaggtgtt 120

aaagggctca tcgatgctaa aatcaccgag atccctcgaa ttttccacgt ccctcaagat 180

accttaccag acaagaaacg ctctgtttca gacctagaga tccctaccat cgactttgca 240

agcgtcaacg tggacacacc ctcacgtgaa gccatcgtgg agaaagtcaa atatgcggtg 300

gagaattggg gattcttcca ggtgattaat catggtgttc ctttaaacgt tcttgaagaa 360

gattaaagat ggggttcgta agtttcacga ngaagaanat tctgaggtca agaaatcata 420

ctactcgctt gatttcaaca agaacaaaat ttgcatacag tagtaatttc gatcaaatag 480

t 481

<210> 2363
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-B2

<400> 2363

ctgtttaccc gnccgtagcc gtccaaaatt ccanggtcna cccacgcgtc cgaagtttat 60

agcgactctt ttcctctaaa agggtctgtc tcttccttct tctcttcttca gatctccatt 120

tcacggatca atcctgtgtt tgaaacaatg ggtgttgaag ttgtaaactc tggtggattt 180

gaggttgctc cggctccttt cgaggggaaa cctgagaaga acgggaagct ggaccaagga 240

aaaggagatg atgcccccat caattttggt tcagtcggtg agctaccaaa gaatgccgaa 300

gagaataata acaaagtggt caactctgat gcacccaaaa atgcagcaga agagtggcct 360

gtggctaaag cagatccact ctttctacct tgttaaatac cgttcttacg ctgaccccaa 420

aattaaagct aagcttgatc taactgataa agagcttgaa aaagttgaac aaagctcgga 480

ctggaatttt g 491

<210> 2364
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-B3

<400> 2364

ngtaggcctc cgaaattcca nggtcgaccc acgcgtccgg aagacttcac tgcttttgca 60

gatgtatgct tcagagagtt tggggaggat gtgaagttat ggactaaaat caacgaagct 120

actttattcg ccattggttc ttatggcgac ggaatgaggt atggacattg tcctcctatg 180

aattactcta ccgcaaatgt ttgtacggaa acatatattg caggccataa catgttgcta 240

gctcactcct ctgcttcaaa tttgtataaa ctgaagtaca agactaagca aagaggatcc 300

gtaggcctta gtatatatgc ttatgggcta tctccttata cggactccaa ggacgatgaa 360

accgcaactg aaagagctga agctttcctc tttggctggg atgttaaagc ctttgggtag 420

ttggggatta tccggatata atgaagagaa ccttggggtc gagattaccg gtttttctca 480

<210> 2365
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-C1

<400> 2365

ntgttacgcc tgccgtaggc gtccgaaaat tccanggtcg acccacgcgt ccgtagccta 60

cccatttcct ccttctttct ctcttctatc tgtgaacaag gcacattaga actcttcttt 120

tcaacttttt taggtgtata tagatgaatc tagaaatagt tttatagttg gaaattaatt 180

gaagagagag agatattact acaccaatct tttcaagagg tcctaacgaa ttacccacaa 240

tccaggaaac ccttattgaa attcaattca tttctttctt tctgtgtttg tgattttccc 300

gggaaatatt tttgggtata tgtctctctg tttttgcttt ccttttttcat aggagtcatg 360

tgtttcttct tgtcttccta agcttcttct aataaagtcc ttctcttgtg aaaatctctc 420

gaattttcat ttttggtcca ttggagctat cttatagatn acaaccagag aaaaagatna 480

aatccttacc gt 492

<210> 2366
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-C11

<400> 2366

aattgagtca gagaaaaaga gaaagagaga aggtaacatg gatgcttgtt ttcttacctc 60

aagatcaatc tctggtgtta aagagcttgt cccgttcatc aaagcgagaa tctttacttg 120

ccccaagaga aattctggcc aatttgttac caggaaggtt gcttctccga tctctgtaaa 180

ttgttctctt tcggattcat ggaagccact ggaagatgat gctgatctct tcaaggattg 240

tgtcaacaat tctacatcag atgctgattg gagggagttc agggcaaggc ttgttgcagg 300

ggaacaagct gcaacgtccg agaaggatca gccctcgtgg tctaacccgg acatggtggt 360

ggactatcaa ccatcatcgt cctcactgat nacaattggg aagcaa 406

<210> 2367
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-C4

<400> 2367

ngtaggcctc caaaattcca gggtcnaccc acgcgtccga aaaagggtac gangattcaa 60

tcatctccaa tcccaaaatt ccacttctgt ccacaaaaca caaagcgatt ctcgatcttt 120

gatcgtccca ccagatggcc gggaacgatt gggtaaacag ttacttagag gcgattctcg 180

acgtcggtca gggtcttgac gatgctcgct cttctccatc acttcttctt agggagagag 240

gtcgattcac tcccagccgt tactttgttg aggaagttat cactggttac gatgagactg 300

atcttcatag atcctgggtt aaggctgttg ctacgaggag tccacaagag aggaacacga 360

ggttagagaa tatgtgttgg aggatctgga atcttgctcg tcaaaagaan cagcatgaag 420

gaaaaanaag cac 433

<210> 2368
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-046-Q1-E1-C6

<400> 2368

aaactgtctc cgccggnacg tnaaggtcca agaaattccc gggtcgaccc acgcgtccgt 60

ttcgcaactt gtcaaagcac cacgaccttc tctctacgga gttgagatca atccccccaa 120

atctcggtgt ggttcctcta gggtttttga tcggaatcgg aatcgataat ctaaccggca 180

tgaggccaat cctattgccg gatccaccca gtctatctac cggcgtccct gatattttcg 240

aacaaggcgg ttcccataac gtcgtcagac gcgccgtcgt catcggaaac ggtttccctg 300

gctccgagaa tcagtgtatc ggtctcgttc gtgcgctcgg cttatctgat aatcaccttc 360

tctaacgagt gacaaggcct aaaggangac taaatgagtg gctgcactgg gctcccaatt 420

ggttttcaca aagaagttgg actttancct canggcatat ttacctccaa tccagattga 480

atggcntgg 489

<210> 2369
<211> 430
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-045-Q1-E1-H12

<400> 2369

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agagatgtcg agtctcgaag atatcaagaa cgagactgtt gatctggaaa aaattccgat 180

tgaggaagtt ttccagcagc taaaatgttc aagggaagga ttgacaacgc aggaagggga 240

aggacaggga tcagatcttt ggcccaacaa acctcgaaga gaaaaaagga aacaaacctt 300

ccgnaanttt ttggggttaa gttgaatcca acttcaatgg gtccatggga aatgggtnca 360

atccatgggc caattgcctt tggcaaccgg tgatggtaag gcctccggat tggcaaggat 420

tttgttggga 430

<210> 2370
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-F6

<400> 2370

acgcgtccgc tctgtctttc tatcgcctaa tggttgtttg gttagttgga ctagtcggtg 60

gctttaagat gcctctaccg tcaacttgcc ctatggaatt ctcctgtatg cctgagcatt 120

ttgttgaaga tgcaatggag ttgctgatat tcgcttcaag aattcccaaa gctttggacg 180

gggtgccgct ggacgacttt atgaacttca taattatgtt catggcaagt cctgaatatg 240

ttagaaaccc gtatctcaag agcaaagatg gttgaagttc tgaactgctg gatgcctcgt 300

tcaagtagtt cttcttctgc tacatctact ctctttgagg gacatcagtt atcgctcgag 360

tatcttgtca ggaatttact gaaactanat gttgacattg agttcacggg ttcanacact 420

ccagttcnat gacaagttca atattcgcca caac 454

<210> 2371
<211> 449
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-044-Q1-E1-F8

<400> 2371

gggtttttct ctcttccata aaacccaaaa gaaactagga agaggagtaa ataatatttg 60

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aagcagcagc agcgtttgcg ttcatagccg tgaaacgttt gcttgcgata caaaggacgc 180

agcaacagct acactgagat tctgccagct ttcagttcct ataccggaga gagtcagaga 240

tttgatcgga cggttgacat tggccgagaa agtgagcttg ttagggaaca ctgcggcggc 300

gataccacgt ctagggaatc aaaagggtac gagtggtggt cgggaggctt tacacgggcg 360

ttcaaatgtg ggacccggta ctaaagttcc ggttggggtt taaccctgca gccaacagtt 420

tcccctcaaa gtcatcaacc aaccgtttg 449

<210> 2372
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-F9

<400> 2372

ggaactgtta cgcctgcctn tancggcccg aaattcccgg ntcgacccac gcgtccgaac 60

gcgcattaga agcttttcag ttagatcctt ctaaatgggg agtcaatgtg cagtctttat 120

caggatcacc aagctaattt ccaagtttac actgcattgt tgaagcctca tgaaagaatc 180

atggcacttg atttacctca tggtggacat ctttctcatg gttatcagac tgacacgaag 240

aaaatatcgg ctgtatccat ctttttttgag acaatgccat acagattgga tgagaacact 300

ggttacattg attatgacca gctagaaaag agtgccgtgc ttttcagacc gaaacttatt 360

gttgcgggtg caagtgctta tgctcgtcta tatgactatg cacgtattcg taaggtctgt 420

aacaagcaaa aggcagttat gttggctgat atggctcata ttaatgggtt ggttgcctgc 480

tggcgttaat ccttcc 496

<210> 2373
<211> 498

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-G11

<400> 2373

actgttacgc ctgccntgta ccggcccgaa aattcccggn tcgacccacg cgtccgcagg 60

aaacagcgtc tacctctgag tatggggcag ggtcaagttc tagctgtagc gaagatttga 120

ctagagatag atggtttaag ggaagcaagc agagtagagt tattgctgct acagggatgg 180

tttcttctgt gattgcgaag gattacttga agccaaaccc tgtgcgaaaa gagtttccta 240

tgatggaacg gtctaaagag ctctgtggga acgggaaaaa agctgcggat agagagaaag 300

ctgaacagtt cttaagttca atgcttggag atgattgcga agcttagcat ggctgttgtt 360

agagatgttt tgtgtcaatg tggctatgaa tgtcgacatg ggcttttgaa atgtcctgcc 420

ttgacatgtc tcctcatcaa ctgatgattc attgagtggt aaatgtttcc ggcataagga 480

atcagcgata tcctggca 498

<210> 2374
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-044-Q1-E1-G12

<400> 2374

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tagacattgc tttgagccag gttcaagttt cctccggcag tttctgtttt ttttcaaggc 120

acaaaactcg ggagattttg tgatacttgt ggagacttgt cgtctactgc agagtttcgt 180

tgacagcagt ggtgacattg tcagcctttt ttctggcttg gactattctt ctgagcataa 240

tttggtggat tttagagtaa agaaacttgc atttacctgt atcgaggcga tacaccagaa 300

taggaaccgt ttaagggatc agctcttagt tactcctgaa gaagctagca tttcaacagc 360

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taagttaagt taacctacaa aaaa 444

<210> 2375

<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-G2

<400> 2375

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gtcatatggc agtcatatgt ctccggttaa tgcggaggtt gaggagatga gatcagagtc 120

gccggtggtt aatgataagg cgttagatat ttctgatgat gatcatgatg atgagaatga 180

accgcttatt gtttctggtg aatgtcgtat ttgttctgat gagtctcctg ttgagaatct 240

tgagagccct tgtgcttgca gtggcagcct aaagtatgct catanaaaat gtgttcagcg 300

ttggtgcaat gaaaagggaa acattatatg cgagatttgt caccaacctt atcaacctgg 360

gatataccgc tccacaactc caacttnaac ctgaagaaaa caactaatga cattggtgga 420

nggatggcaa atctcaaggt ttgggatgnt gcaagaatcc cncgccnccc ttcaaattgc 480

tgaancct 488

<210> 2376
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-G4

<400> 2376

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ggcccncncn gcnccnaaat ncagaaaaaa aggaacgatt tttatttccg gtgaatgaga 120

attttcnctc gaatttgatc gatcacatat ttcatctgtg tgttttcatt ttgaggatgc 180

cagcaacgga atatcaaaga tcattcggga ggtcttttct gaatttacgg cgagacacgg 240

cggtgaactc ggttgaagtc aacgacggtt acccccgagt tgactcaaga tggaagcaga 300

gcttgtttcg tttcagagaa aagttgctga gaggtttatc gatctcaatg cgtctagttg 360

tgaaagattt actgtctccc gaatggggtt ggggaaacct ccttgattcc gtttcnaacc 420

ttgtcaaaga aananttccg ttnccanaag tcatcaaatc atcngttccg atgantaact 480

aaaacaaccg aatgggntcn attgggttca agaataa 517

<210> 2377
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-044-Q1-E1-G5

<400> 2377

acgcgtccgt ctctcttcac caaatcctca agaagatgag caacgacaag gatagcttca 60

acgtctccga tcttactgct gctcttaagg acgaggatcg agctggcctt gtcaatgctc 120

taaagaacaa gctgcagaat ctggctggtc agcgttctga tgtgctcgag aatctgactc 180

ccaatgtgag aaagcgcgtt gatgccttga gggatataca gagccaacat gatgaactag 240

aggcaaaatt ccgtgaggag agagctattc ttgaagccaa gtatcaaacg ctgtatcagc 300

ctttgtatgt caagcgttat gagattgtga atgggcacta ctgaagttga actggctcca 360

gaggatgata ccaaggtgga ccaaggagag gagaaaactg cagaagagaa aggagttcca 420

agtttctggc tgacagctct gaaaaataac gatgt 455

<210> 2378
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-G7

<400> 2378

ctgttacccg nccgtaccgg tccaaaaatt cccgggtcga cccacgcgtc cgctggtttt 60

caatcttctg agaacagagc tgttgaatca gctgttccac aagttgctct tcaagcattt 120

gcttttctaa gtgagaacac tgctgcgcag actgttgttg cttccattgc gagtgaccca 180

aaagtatggg atgctgttat ggagaataag gatctcatga aatttcttca gaccaacaaa 240

accgctgttt cctctcaagt tgaatctgac aatgacgacc aatctgaacg ttcgagcacg 300

actgagtgtg aagtcgtgga aactaagcca atggaactct tagagattct gcaggacatg 360

aagctaaaag ctgttcggtt gatggaaaat gtatcttcct actttggtga cttgtttggg 420

gttaggatca gttacagaag atggaaaaga caagaancag acgttgttca atgaccctcg 480

ttctctgttt ggattaa 497

<210> 2379
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-G8

<400> 2379

ccgggtcnac ccacgcgtcc ggggagatta tgcgcagttt tggtcttact gacagtggag 60

attgcaaatt tccgagagcc ttctgaatgg ttgtattact ttccccctttt ggctgttgaa 120

gatctaaggg catatggatt gggttgtgat tggagacgct cgtttgtgac cactgatgtt 180

aatccctttt tcgatgcctt tgtgaggtgg cagatgagga agttgaaatc tatgggaaag 240

attgttaaag accgcaggta cactatattc tcacctttag atggccagcc ttgtgctgat 300

cacgaccgtg ctactgggga aggtgttcag cctcaagagt atacactcat aaagatggaa 360

gtagtcaagc cattccctct gaaactgggt cctttggaag gcaagaaant gtttttggct 420

gcaactactt taaggcctga aaacaatgta tggacaaaca aacccca 467

<210> 2380
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-G9

<400> 2380

acgcgtccgc aattattcaa aaccgcatca tgttcttgtt gagaagcctt tatgcaccac 60

agttgcagat tgcaaacagg ttttggaggc tgcaaagaaa aggtcagata tggtggtgca 120

agttgggttg gagtacagat acatgccgcc agttgctaag ctaatagaac aagtaaaagg 180

cagagacttt ggtaatgtca agatggtagc aatccgagaa catagattcc ctttcttggt 240

taaggtgaac aactggaata gattcaatgt gaacactgga gggaccttag tggagaaatg 300

ctgccacttc tttgatctaa tgaggctctt tgccggtgca aatcctgtct gtgtgatggc 360

ttctggangc atggatgtga accacaagga tgaagtttat ggtggaaagg tgcctgatat 420

aattgataac gcatatgtta ttantg 446

<210> 2381
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-H1

<400> 2381

acgcgtccgg aagaagcaaa gaagcactga taaatctctg caactcaaca aatttctgag 60

attagctatg gaaggttctt catcttcgtc ttcgttaatt tccaaatcgg acgctgagtt 120

ggaggaaatg ctcgatcgga tgctgacgag actcgctctt tgcgacgact ccaagctcga 180

atccctagtc tctaacctcc ttcctcttac catatcttct ctttcttctc aatctcccgt 240

tgttcgcaac aaggttcttg agatattgag tcatgttaac aagagagtga agcatcagca 300

tgaaattggt ttgcctttat tggctttatg gaaattgtac acagatcctg ctgctgctcc 360

taagggtaag gaacttttgc tattggncaa tgttgagatg gcttttgaac gaactccctg 420

caaaaggaaa agggaaggaa attgcaccct aatacactgg nggaat 466

<210> 2382
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-H11

<400> 2382

gggggggaa cgtttagccg nccntaccgg tcccanaaat tcccgggtcn acccacgcgt 60

ccggttttgg atttggtaaa gcttctcggt cacttgctcg gtgattgaaa ctgaatcgat 120

tgtgattgtg attgtgattg tgattgtgat tgtgagggaa ttatggctca agccgtagaa 180

gagtggtaca agcagatgcc gattataacc cggtcgtatc tcacggcggc tgtagtcacc 240

accgtcgggt gttcgctcga gattatatct ccttataatc tctacctaaa tcctaccctt 300

gtggtgaagc aataccagtt ctggcgtctt gtcacaaatt tcctttattt ccgaaagatg 360

gatttggact ttttgttcca tangtttttt ccaaccccaa tactgcaaac tgctcgaaga 420

aaaactcctt cangggaaa agaccgccgg attcccttac atgcccttaa ttcgggggca 480

actgntccta actgggtaat tgt 503

<210> 2383
<211> 508
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-F4

<400> 2383

aacgttcgtt gcccggccgg tccaaattaa cgggtcnacc cncgcgtccg gtgacttnaa 60

atttattnag ataatttcaa tccnaaggga ttctttaatt taatgttttg ggtnanaacc 120

aaacgcagtg agccaaatca agatgggtga cgccaactac aattagaacc gtcgatctcc 180

gctccgacac ggtgactaaa ccaacagagt caatgcgttc agcaatggca aacgcggaag 240

tagacgacga cgttttggga aacgatccaa cggctctgcg tttggagaaa gaggtggctg 300

agatcgctgg aaaagangcg gcgatgtttg ttccgtcagg gacaatgggg aatctgataa 360

gcgtgttggt ccattgtgat gagagaagga attgaagtga ttccntggga gaacactctc 420

acattcatat atatgaaaaa cggcggcgtt ttcaagcctc ngtgggtgtt catccgaagg 480

acggtgaana atgaaggaag acggttcg 508

<210> 2384
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-D7

<400> 2384

ccgnccggta ccgagtccan aaattcccgg gtcgacccac gcgtccgccc acgcgtccgc 60

ccacgcgtcc gtctctctct ctggcttgct gtttactctc atcgtctcct ttacttcatt 120

cgtcttcttc ctctctttcc cacaagctcc cattgatata gagagagaga tttaaggaag 180

gaatcatggc agggggtgga gctccagcac ccaaagcaga cgaaccacaa ccacatcctc 240

ctaaagatca acttcccaac atttcttatt gcatcaccag tcctcctcct tggcctgaag 300

ctattcttct tggattccaa cattaccttg tgatgcttgg gacaacggtg ctcataccta 360

ctgctcttgt tccccagatg ggaggtggat atgaaagaga aaggcanagg tgattcagac 420

tattctcttt gttgctggna tcaacacatt gctccanaac actgttccgg tactanattg 480

cctgcggttt gtttgg 496

<210> 2385
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-D8

<400> 2385

ctgttacgcc tggcccggta ccgagtccaa aaattcccgg gtcgacccac gcgtccgcat 60

ttatttgata aatagattta agctaagagt taaaaaaaga tggcaacact aggagatatt 120

ggagtagcag cagcaatcaa catactcact gcaatcatct tccttttggc atttgcaatc 180

ttgaggattc aaccattcaa cgatagggtt tatttcccta aatggtatct caaaggtata 240

agaagcagcc ctttgcattc aggtgctctt gtcagcaagt ttgtcaatgt taacttaggc 300

tcatacctcc ggttcttgaa ctggatgccc gcggctctaa agatgcctga gcctgagctt 360

attgatcatg ctggattgga ttccgctgtc tacttgaagg atttacttga tagggcttaa 420

gatctttgta ccgataagcg ttacttgctt ggtcnattct ggtacctggt caattgggac 480

taatcatggt ccgcaactaa cctaa 505

<210> 2386
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-D9

<400> 2386

aactgttacg cntgcctgta ccggtccaaa attcccggnt cgacccacgc gtccgaacaa 60

catctgcttc ctgggttttc tctcctttgc ccttatctcc cttccctcct tgtcacttgc 120

tcttaccaat cctgacgatg ttgcggctat taacagtctc ttccttgcac tggagtctcc 180

tcttctcccc ggttgggttg catctggagg tgacccatgt ggtgagagct ggcaaggtgt 240

tctatgtaat gcttcccaag tagaaacaat aattctcatc agtgccaatc ttggaggaga 300

gcttggtgtt ggcttaaaca tgtttacctc tcttaaagca atggatttta gcaacaatca 360

cattggagga agtatcccat ccacgttgcc tgtttcattg cagaacttgt ttctttcagg 420

taacaacttt acaggaacca tcccagaatc tctttcctcc ttaaaatctt tgtctgtcat 480

gtccttgaac aaaa 494

<210> 2387
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-E11

<400> 2387

actgtttacg ccgggcctgt ancggtccca naaattcccg gagtcnaccc acgcgtccga 60

acaaaatgaa attttcaatc acattagctc tatgcttcac tctctccatc ttcttgatcg 120

gatcacaagc caaagttcca gtcgacgacc aattccgagt ggtcaacgaa ggtggctaca 180

ccgattacag tcccatcgaa tacaaccccg acgtacgtgg cttcgtaccc ttcagtgaca 240

acttccgtct ctgtttctac aacacaaccc caaacgcata cactctcgct ctcagaatcg 300

gaaacagagt ccaagaatcc actctcagat gggtctggga agcaaacaga ggctcaccgg 360

tcaaagaaaa cgcgacgttg acttttggcg aagacggaaa cctcgtactc gctgaagccn 420

gatggacgcc ttggtaatgg caaacgaaca cagctaacaa angggccgtg ggggattaaa 480

atccttggga gaatggcaat atgg 504

<210> 2388
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-E3

<400> 2388

tgttacgttg ccgggccggt ccgaaataac gggtcgacgc acgcgtccgc tctgcttgag 60

agagtcagag agtcaagaga gaaaaggggt cgagaatggc ggtcgcaata tctgggagta 120

gtttgatatc gtcgactctt cagcattata ataatcggat ttatatccga gattatccga 180

ttccgtgtca ctcttctaat ccaatttgca attcttttaa tttcaaaaga cgttcgttct 240

ctccttcttc ccccaaattt aacgaccatg tcgttaaccc ttcctcttct tatttatcct 300

ccaagctttc tccaattcga acccattcct ctttcgctgc gtgtggctgc tcctggattc 360

aagacaattc antggttcat gattatgcta caacaactaa tgggacgttc aaagcgttgc 420

tcggcgttac caancancaa acacagtggg atgtctcttc ggtggtcaga tctttttgag 480

tcaaaatgct cgggtcct 498

<210> 2389
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-E4

<400> 2389

ntacgttggc cgggcccggt ccgnaataac gggtcgaccc acgcgtccgg aagaacaaaa 60

ccgtataacc gttcggttca gaggtgccga accgaaccga cccgtaaacc gaaatcctca 120

aaagaaattg ccgatcggtt tgctactgtt caaaacctcg gtgccgagaa ccgaaactgt 180

cggttttttc ggttcgggtt tctcggtttc ttccgaactc ccaggcctag tttggtttta 240

tttttcacga gttttgcttc tcttttcatc ggcgacgacg acgtcgagtt tctgtcaaaa 300

cgttaacgat ccgactcgag cgtcgacagt aagagaagaa gacagcgatt gtgtgtagat 360

cgacggcgaa cgtgtgtcga tncgtctcga tcgacggaga atacgtttcc gattcggttt 420

cgattcaaat cggagagttg aggattctaa atcgggaaat tgcattaata ctcaacctcc 480

aaaccccttc tgaaanatcc c 501

<210> 2390
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-E6

<400> 2390

ctgttacccg gccggtaccg gtccaaaatt cccgggtcga cccacgcgtc cgcttggctc 60

taccttgaat ttctactttg gtgctactct tcttcacata cctagctgct gtatactata 120

cgtgaaccaa ctccgtattc tactttagag gccatgggaa aagcttctcg agacaaaagg 180

gatatctatt atcgtaaagc taaagaagaa ggatggcgtg caagaagtgc ttttaagctt 240

cttcagattg atgaagaatt taatattttt gaaggtgtga agagggtcgt agatttatgt 300

gctgcacctg gtagctggag tcaggtcttg agtcgtcaat tatatcttcc tgcaaagtcc 360

tcaagctgag tcaaaagatg gggatcttcc tcttatagta gccatcgatt tgcaagccta 420

agggctccaa attgaaggtg tcatccnagg ttcaaggggg acataactaa tgccccggac 480

tgctgaaatt ggtcattaga acactt 506

<210> 2391
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-F1

<400> 2391

aacgttagtt gccggccggt ccgaaattac gggtcgaccc acgcgtccgg cgaaagacga 60

gctccggtct catttctcgt tcttctgatt gatagatcgc tcggaacttg gaaagcagcg 120

taatcggtag ggagtgattt gagttttggt gaggatgtct atggttgatg agcctttata 180

cccgattgct gtgcttatcg acgagctaaa aaacgatgat attcagcgta gattgaactc 240

tattaaacgg ctttctatca ttgctcgtgc tcttggagag gagaggacaa gaaaagagtt 300

gattccattt cttagtgaga acaatgacga tgacgatgan gtgcttttgg ctatggcgga 360

aganttgggg ggttttaatc tgtatgtagg aagggttgag tatgcataat gttcctgcnt 420

ccaacctttg gngnacccaa ccactggttg aggaaacntt cnttaaggga aaaaagctgt 480

tggattcacn tttgt 495

<210> 2392
<211> 445
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-F10

<400> 2392

acgcgtccgg aaaatatttc gaacgcagct gttatgattc agccatctct aacaacatat 60

tcgtttaact cactacctca acctgcattg ttggatgttg cttccattgg tgcagaccgt 120

atcctcctgt tggattctta cattagtgtt gtcgttttcc atggaatgac cattgcacag 180

tggcgcaact tgggatatca aaatcagcct gaacaccagg catttgccca actcttggaa 240

gcccctcaag aagatgcgca gatgatcatt cgtgatcgtt tccctgtacc aagattaagt 300

tgtttgtgat caacatggat nccaggcaag gtttctgtta gcaaagctaa atccgtcaag 360

caacatacaa caatgcaagc gagatgaatg caggctctga tataatcctc acggatgaag 420

tcaagtcctc aagtcctcct tccaa 445

<210> 2393
<211> 508
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-F11

<400> 2393

ggggnaacgt ttagccggct ntagcgggcc aagaattccc ggantcgacc cacgcgtccg 60

cntttgaatc nctcaaaatt ctcctaattc ccaaaattac ccctctcatg gcgacgaacg 120

gatcgtcgga gcatcttctc ccggagacga caagaccaag cgcgatcatc aacaaacaac 180

aaccggagtt tcctgcatca cgattcacgt tcatgtccct cgtgctctgg ttcgaccagt 240

caaatttcgg tacggctctg ctttcgtggt ccgttttctt ccttctcgtc gtcatcgttc 300

ctttgatctc tcacttcttg ctcgtttgct ccgactgcga tttccatcac cgacgtccgt 360

annacgttat tgtgcagctt gngntaatcn annttcgcat gnaacctttt gccgatagcn 420

gaaaacatct ngctcacgng aancngagtg gncgcttggg tatggcaaac cgaacacagc 480

taacanaang cgcccttggg ggattaaa 508

<210> 2394

<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-F12

<400> 2394

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ttgagtttct tcaccgtacg attaaccgga gatggagtct tctcccgatc caggagagtt 120

gattaagtcg tctcagccga gtttctttga gtttcagaag caggcgtctc taatgacgag 180

ctgcaatctt ctatggaaag agctctctga gcatttcact tccatggagc aaaacctgat 240

gaagaaatct gaagctctga gacagatgat tgaaacccta gataatcaaa cgcaagagct 300

cgattgagtt actcaagcat cgtgaggtga ctatagacca cagcgtcgag atcgcggagg 360

ggaaagttga ggaacgccgt tagagccggc gttggattcn cctgggagaa agctagagac 420

tgtggtgatg aagataccgg agaagtcgac gacnggcgac gggcntttaa tcggcgcctg 480

aantcccctt tg 492

<210> 2395
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-D3

<400> 2395

tacgttgccg gccggtccga aataacgggt cgacgcacgc gtccgaaaat cntctctcta 60

atctctccac tctttcataa atattttcct aattcttcta ccttggtgtc tgattctagc 120

accaaaccat tttctcctac caaaatctgg gtttcgatca attttaggtc ttttgattcc 180

tacttgtcta atcgtcttgc aatttcaaag atgacagttg ttggagatgt tgctccaatt 240

ccaaggagga acagttctac ttgctctaat gatatcgctg ctccgttatt accagagtgt 300

catgggagat gaagttgctc atgatgaatt caatggagct tcttttagtg gcgcggtttt 360

tanctcgccc acgactataa attggtgctg ggtatcatgg gctttgccct ggctacaaat 420

gaaanattcc ttgggacctt gggacntggg aatcacgaat gantggttgt taanggcttt 480

ccttgaactg aatgcgtccg aattgaagtt c 511

<210> 2396
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-B3

<400> 2396

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tcttccctca aactcaagat ccgattcttc taattctttg tccccccaga gattcttctt 120

ctttctccaa gtaaaagaaa acaactttct ttctcttttc ttgcgaaagt cctcaacttt 180

caccactaaa tcagcttcct tcaatcactg tgtttgcttt ggacccagtt tctgatttag 240

cgactagggt tttgattgga accgtattaa gtatatgaga atcgggtttt actggtgaat 300

cggattatca tcggaattcg gaaaaagatg gatcggaatc aaaagatgga tcacgttatc 360

ggcgggaagt ttaagttggg tangaagctt ggaagtggga tnattcggtg aactttattt 420

agggatcaat attcaaacct ggaagaagaa gtcgcagtta agctggaaac ctgtgaaaga 480

agaagcatcc tcnaactgca 500

<210> 2397
<211> 591
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-B4

<400> 2397

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caatcctccc aaatcctaat cctcaantcc gggttccgaa anaaagcctt nanagggcga 120

attccctttg gctttaagcc taaactaagt aantttccgt ncatggtnct tggggngcaa 180

cgaatttgaa gttcgggatt cctgggtggt aattttacaa gaagccttta ttcaancaaa 240

atgcaaagtt caaaagggaa gttgcaaggt tgaaagaaan tgttattccc tggaatcctg 300

attctctcaa ataacctcac acccggtata cggtctgatc tttcttttca aatgggcaaa 360

gctgggggga aaaagatgag cgtccaaacg attccaaaga tcaagtttcc gaaacttant 420

tttcgcanaa tcaggtcatt aacaaatgct tgtgcaaccc aagccgattc cttgctaacc 480

tcntgaaact cctccaagag gttgacatcg gggcctgaaa ctatcaagnc gctgaaaaga 540

attccaccaa ggaactttcc ngtccgaacc tcaaangggt tttggctatc a 591

<210> 2398
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-B6

<400> 2398

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atttcaagtt tctgaaccac tcatggatca ggcggagctg agtatagagc aggtattgaa 120

aagggacatt ccatgggaga cttacatgaa cactaagctg gtttcagcta aaggtctcca 180

gctcttaagg cgctatgata aaaaacctga aagtgctagg gcacagttgc tcgatgaaga 240

tggtccagct tatgttcatc tctttgttag catcttacgt gatatattca aggaagaaac 300

tgtcgaatat gttttggctt tgatttatga aatgctctca gcaaacccaa cacgagctcg 360

attattccat gatgaaatcn ttgggcaaat gaggatactt atgagccttt cttgaggttg 420

ctttggaagg gaaatttggt caatcaagaa aaanag 456

<210> 2399
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-B7

<400> 2399

caatccacca ttggagacgt gccatcttca tcctctgaga tgtggagatt ctgcttcttc 60

ttatcgttac tattctttga tgttagcgcg gtgaaatctg cagaatcgat tttcctccca 120

agtcaaatcg gagttgaaga ttcccgcgtc tttgaatctc ttagtcttag tcctgtatgc 180

tccgcggctg atccaaacct caactacaag ccggtcatcg ggattctgac ccaccctggc 240

gaaggtcgat gggacgctcg tcttcactct ctgaaaaact acgcctacgc gacgaacata 300

tcgtacatcg cagcttcgta tgtgaagtta gctgagactg gtggagctcg tgtgattcct 360

cttatctaca acgagcctga aagaaatcct gtttcagaag ctagaattgg taaatggtgt 420

gatattcaca ngtgggttgg g 441

<210> 2400
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-C11

<400> 2400

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nattnccctn caaccttncc nanggaaaca ancncnaact tgnctnccag ggtncgnctt 120

aacattggtg gaaagaaatt ttgtacgacc attgatactt tgactattcg tgagccagac 180

tcaatgctcg cagcgatgtt tagtggtcga catgcaatgt gccaggaatc caaaaaggga 240

tatgtattca tagataggga tgggaagcac ttccgtcata ttttaaattg gttgcgtgat 300

ggcgttattc ctaagtctgt cagatcctga ttgttctgaa cttttgcggg aagcagacta 360

ctatcagctt cttggactga aagatggaat aaaagattcg agaaaagaat tggtgaagta 420

gaagctgaat taacgcgtat agatatcatc aaatgtatac aaaccga 467

<210> 2401
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-C3

<400> 2401

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ttttgaaaaa catgaccttt ctaaaaatga aaagcctttc tttcttcttc accatcctcc 120

tctctctctc gaccctcttc accatctcca acgcacggaa gtttaatgtc ggaggcagtg 180

gcgcgtgggt tacaaaccca cctgaaaact acgaatcttg gtctggcaaa aaccgtttcc 240

ttgttcacga cactctctat tttagctacg ctaagggagc tgactcggtg ctagaggtga 300

acaaggctga ttacgacgct tgtaatacaa agaatccgat caaaagagtg gacgatggag 360

attctgagat ctctccttga tcgttatggt cccgttttac ttcatcagtg gcaatgaaag 420

attaactgta angaaagggt caaaaagcct aatgtcgttg tcataatccn gctaaggatt 480

ccatccaacg ggctcaagtc tcctcaacgc cggctgca 518

<210> 2402
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-C4

<400> 2402

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ncccncaaga ttncaattcc cgaggcncaa gagaaaaccg taaacccctn cnccgttcac 120

ncaatcaacc aaagatgctt gagattcttc aaatcaaggg tggtcaatgc ggtaaccaga 180

tcggagccaa gttctgggga aagtggtttg cgccgagcac ggcatcgatc caaccggaag 240

gtacaccgga gactcagatc tgcaacttga gcgcatcaaa cgtttactac aatgaagcga 300

gttgcggtag attcgttcct cgtgcagtgc tcatggattt gggagcctgg gactatggat 360

agtctcagat ctgggaccgt acggtcagaa cctttccgac ctgataacnt tcgtctttgg 420

tcaatcccgg tngcggggta acaaacttgg gccaaagggg acactacact tgaaaggagc 480

ctgaactaaa ccgaattccg ttccncgaag gtttg 515

<210> 2403
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-C5

<400> 2403

gcctcctctg aacttctaga gcttgctgca gctcgggact cggtatctgc aaaaaacaga 60

aagccccaat gattttgcca tcgatgctga cccgtttgtt caaagtcagg agagcctgaa 120

tgaattcccc tttgcgatca aagaacggga atgggaattt atcagtatct tggccacgga 180

ggtcaaatcc atggctgtct acggtgacca agataaggct ccaacaggtt ctcgcagaat 240

ttctgctaag tattgtccgt tatgcaccca tggaaggctc ggtagagctc catctatgcc 300

cgactctgaa ncaaatggct gacggattct ccgctgtacg tttgggantt caaaattggc 360

gtttgcaagg ggaaagtgtg ccgccagaag aaagttgcaa gacatgtttc cataantaac 420

ccgatggaca agtcca 436

<210> 2404
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-C8

<400> 2404

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gaatgcgtct actattacta agaagaagga taaacaacca agtgatgctg ctgataatgg 120

cggaggcgaa gatgaagaag gaatggatgt gaatgagatt gagatgatga agatgttagg 180

gattcctact ggatttgatt ccacaaaagg caaaccagtt gctggtgctg atgttagtgg 240

tattagagct gtaactaagc gtcagccaag acagtacatg aaccgtcgcg gtggatttaa 300

ccgtcctcta ccggccgagc gtaatcgcta gtcttctcaa ggtccctcta acgctgtctt 360

gaacactagt caaaaagatg agggctagag ctgcatttcc angatagtag ttactagtta 420

ctccaattct tccccaaaac tctgttctga tgtc 454

<210> 2405
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-C9

<400> 2405

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tgacacagct aaagatccct ggattctcca aacaccgtga aacgtatcaa caggaattgg 120

agatgctcaa cttaagaaat gggttatagc tgaaccagag acaaagattt cgagaatcga 180

gcatgaccat gagtttttga tcttggcatc tgatggttta tgggataaag tgagtaacca 240

agaagcagta gacattgctc gtcctctctg cttaggaacc gagaagccat tgttgttagc 300

tgcctgtaag aagcttgtcg atttatctgc ttcacgaggc tcgtctgatg atatcagtgt 360

gatgttgatc ccttttacgc caagttcata tagaaaagag angcatctta agaagatttt 420

agatatatga taaacgttag aaatttggag g 451

<210> 2406
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-D1

<400> 2406

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atcacaaaac tcacagttgg gtatacaaaa gatgctgata tgaaggtggt ggaagttctt 120

ggttccaaag gtgtcaatat ggttcctttt gagctaaatt atactgtgga atcggttcaa 180

gggatattga acttcacaat ggatgtagat atgttggctc attttgatga atggcaaaga 240

accggtcaag aagatctcta tgaagctcaa gatcaatggc cggttgagtt acgccgtgct 300

cgtgtagtta cagcagtaga ttacattcan gctcagagag ctcgtggtaa gttgattccg 360

gattggagaa aaactttaca atcnaatgcc gtttaatggg aaatgtgacc gattgggaaa 420

aaag 424

<210> 2407
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-D11

<400> 2407

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aggggaagca aataaattat cgaagcccac tggtttcgga gctgatcggt ctctatttct 120

ctcttcatac atatctcaag cagataaagt tgatcggata ctagaatggg aggaggattt 180

agagttttgc atttggtgag gccattcttg gcttttctgc ctgaggttca gagtgctgat 240

aggaaggttc cattcagaga gaaggttatc tacactgtca tctctctctt catctttctt 300

gtctgcagtc agcttcctct ttatggaatc cattccacca ccggtgcgga tccattctat 360

tggatgcgtg tcattcttgc gtccaaccgt ggaactgtca tggagctcgg tattactcct 420

attgttacat ctggacttgt gatgcaactc ttggctgggt ccaaagatta ttgaaggttt 480

acaacaatgt tccgtga 497

<210> 2408
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-D12

<400> 2408

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caccgtccct catgtggatg gtctccccgt tggcacagag acagtctctg agatccccgt 120

gacatcagct gatctcttga tgtctgctat ggatctcaca cgtgatcaag ttgaaggtgt 180

ggtccgagcc gtggaaccgg acctgatctt ctttgacttc gctcattgga ttccagaggt 240

agctagagac tttgggcctt aagactgtaa agtacgtcgt ggtatctgca tcgactatag 300

ctagtatgct tgttccaagt ggtgagttan gtgttcctcc gccgggatat ccttcatcga 360

aggtgctgct tcgtaaacaa agatgcttac accaatgaag aatccnggat cc 412

<210> 2409
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-044-Q1-E1-B2

<400> 2409

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tccactttct cgatctttga gatttctttc aaaggaagaa aaaaaaaaaa actcgcgatg 120

tccgccgaat cagctagcca aattcctaag ggacaggttg atctactaga ttttattgac 180

tggtctggtg ttgaatgtct taaccaaagc tcaagtcact ctttgcccaa tgctctcaag 240

cagggatata gagaagatga aggtttaaac ttagagagtg atgctgatga acaacttctc 300

atctatattc cttttaacca agttatcaaa ctacattcct ttgctatcaa aggccctgaa 360

gaggaaggtc ctaaaactgt aaagtttttc tcaaacaaag agcacatgtg cttcagcaat 420

gtcaatgatt tcctccaagc gacancgctg aactaactgg aagaaaaacc ttaagggaaa 480

ancggtggtc ctaaagtacc ttaaa 505

<210> 2410
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-A3

<400> 2410

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cccgtgactc agtgattctc ctcttccaat cctctccgga agaactaaac aaaaacacga 120

tctttctcag atttagagag agtaagagtg agagagtgtc agagacacga atcaaagaaa 180

tgatttttaa aagcttctgt taattctaat ttgcatagat ttgtttactc gagcttgagc 240

ttgagcttct tctaatggag ttaaggaagg acaagcttct tatgttttac tcagagggga 300

aagaaagcaa agaagctaaa tgggcagtga atgatccaat gagcaaatct tataagctct 360

ctttaccttc agcactaaga cctgataatc tcttacctgg gaaatagact tagatacact 420

gatgcttcta agtccaaatc ntctaaagtc tcaaggnaca aaggactatc ctgatcaagg 480

aatngagatt gtct 494

<210> 2411
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-A5

<400> 2411

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aaacaaaatc atgtctcgat ttgctatctt agtaaccttg gcacttgcca ttgccactgt 120

ttcggtggtt atagctcaag tccctccgga gaaacaattc agagtcgtca acgaaggaga 180

attcggtgaa tacatcactg agtacgacgc aagttacaga ttcatcgaat catcaaacca 240

gagcttcttc acatcaccat tccagctctt gttttacaac actaccccta gcgcctacat 300

cttagctctc cgagtcggac tcaggcgtga cgaagtctac catgcgttgg atatgggacg 360

cgaatcgcaa caaccccgtc ggagaaaacg ctacactctc actcgggccg taacggcaac 420

ctcgtcctng ctgaaactga cgggacgagt caaatggcag actancacag ctaaacaaag 480

gcgtcaccgg gattccaaat ctt 503

<210> 2412
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-A9

<400> 2412

aaaaaaaaaa cacacacaca catcaagttc accttggaca tggtatattt acctttagat 60

gcagcatcta agaagtgtag actcgttttg catactcaag acaaaagctg tcctaaagcg 120

tctgtgtgag gtggcaccgc agctcctact ccagccatcc agccatccat aattgctgtg 180

gaaagaagct ctaattggcc agtggttact cctgaaacat catctgctgt aacagagaga 240

aactcaaaac tttctgcaag ccatgaccta atctgtcttt gcagttcacc aaccggaagt 300

gtgaacaant aaagcagcta agggtttgtt tccaatggna aaaacttttg gcttcaacct 360

ggtanctccc tcangctttc ctccagtcac ttggctggcc tccccaatta tcccaan 417

<210> 2413
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-B3

<400> 2413

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gtccgggttt cttcatcttc acaacaatgg cgtcctcact cactaggaat tgctctcgct 120

tctcaaaagc catctctgtc cgtttcatga gtaacctacc ggaaaacacc gtctacggag 180

gaccaaagcc acaaaaccca aaccaaagag tgacgctaac gcatctcaga caaaaacacc 240

ggagaggaga accgatcacc gtcgtaactg cctacgatta cccatccgcc gttcatttag 300

acacagctgg tatcgatgtt tgtcttgtcg gtgactcagc ttccatggtt gttcatggtc 360

acgacacaac acttcctatc tccttanacg aaatgcttgt tcattgtcgt gccgttgctc 420

gaggcgctaa acgacntcct cctaagttgg gtgacttgcc atttgggacc tacgaatcca 480

agctcta 487

<210> 2414
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-B6

<400> 2414

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ccacaaaatg gcgttcttgg ccgttattct cttcttcttg ataagcagca gcagcgtttg 120

cgttcatagc cgtgaaacgt ttgcttgcga tacaaaggac gcagcaacag ctacactgag 180

attctgccag ctttcagttc ctataccgga gagagtcaga gatttgatcg gacggttgac 240

attggccgag aaagtgagct tgttagggaa cactgcggcg gcgataccac gtctaggaat 300

caaagggtac gagtggtggt cggaggcttt acacggcgtt tcaaatgtgg gacccggtac 360

taagttcggt ggggtttacc ctgcagccac cagtttccct caagtcatca acaacgttgc 420

ctccttcaat ncctcccttg ggg 443

<210> 2415
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-B7

<400> 2415

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ttggataact ttcctggttc aggaacagag aagagcaaac tggtaagcaa ggtgacaaga 120

aatatcccac gtcccaaacc gcggccgaag aagaagatat tgcttaaaaa gaagctaaaa 180

atcgttgtaa attctgctac aaaaatggtt gaggaagtcg atacttcctt agagcctagt 240

gcaagtcaac ttctgtgcca gaagtgccac tgtgcggtaa agagcaccag cactgaaaac 300

cacccgccct cgaatactag tcatactact gataaaaatg tcagtataga agcagatcaa 360

gaatcactcg caagcccgcg tctcattcgc attgtgaagt gtaataaaag aggccaacaa 420

ngggttcctc ggattcctgt gaaggttagt gat 453

<210> 2416
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-B8

<400> 2416

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ttctctatat cttctcctca acttggatat gggtgaagcc gtagaggtca tgttcggaaa 120

tgggttcccg gagattcaca aagccacatc acccactcaa accctccact ctaaccagca 180

agactgccat tggtatgaag aaaccatcga tgatgatctc aagtggtctt ttgccctcaa 240

cagtgttctc catcaaggaa ctagtgagta ccaagatatt gctctgttgg acaccaaacg 300

ttttggaaag gtgcttgtga ttgatgggaa aatgcaaagt gctgagagag atgagtttat 360

ctaccatgaa tgtttgatnc atcccgctct ccttttccat cccaanccca aagactgtgt 420

ttaaaaatgg gaaggaggtg aaaggc 446

<210> 2417
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-B9

<400> 2417

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ttgtcctttc agattcatcg ccacctgcta tgtcttctct tcttgttgtt agcagagatt 180

caagcgtgca ctctcaggct ggcagcagtt cagggccaag ttcaaggagt tctcgggctt 240

tacgagaagt tgtgtcttcc cttcctattg aaggccgtat gctttttgta gcagatgtgc 300

tcccctctcc tgatactgct gctactattc aatcattata ttcagaacta gaatactgtg 360

gtgtcgaagt ctccggagaa tccttaatga aaaaggatgt tggaaaaact ctggggcgaa 420

aaatgattct ttcaacccan cataattttg ccaaaggaga aaagaatggt tggtttttaa 480

<210> 2418
<211> 172
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-043-Q1-E1-C10

<400> 2418

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acattattat aaagccaact agggaaaaca gaggtacttc aagtaagggc aagacaataa 120

aatctcttaa gaaaatagtt tctaatccat taaaaaaaaa aaaaaaaaaa gg 172

<210> 2419
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-C11

<400> 2419

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gaaaagcgaa acaacaccca cagagcaatg gcccctgctc tcgccgttac acgagatctc 120

accgccgtcg gatctccgga gaatgctcct gcgaaaggac gtgcttcggt ttacagtgaa 180

gttcaatcaa gccgtattaa caacactctt cctttgcctt ctgttctcaa aggagctttc 240

aaaatcgtcg aaggtcccgc tagttccgcc gccggggaat ccagatgaga tagcgaagtt 300

gtttccgggt ctatatggcc agccatcagt agcagtggtt ccagatcagg atgcaccttc 360

gtcggcaccg aanattgaag aattggtgtt tgntttgtcc tggaagtcaa ggcanctg 418

<210> 2420
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-C4

<400> 2420

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gccagcatcc atgatggcaa agtgtgaccc tcgtcacgga aagtacatgg cttgctgttt 120

gatgtaccgt ggtgatgtcg tccccaagga tgtgaacgca gctgttggca ccatcaagac 180

caagcgtact attcagtttg tggactggtg tcctactgga ttcaagtgtg gaatcaacta 240

ccagccacca actgttgttc caggaggtga tcttgctaaa gtccanagag ctgtgtgtat 300

gatctcaaac tccaccagtg ttgctgaggt gttctcccgt attgatcaca agtttgatct 360

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gaaatttcaa ang 433

<210> 2421
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-C5

<400> 2421

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ctgnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnngct ttggtcaaac 180

ctgaatccga gacacgaaag ggcctttact tcttgtcgaa tcttgaccag aacatcgccg 240

tgattgttcg tacaatctac tgtttcaaat ccgaggagag agggaacgag gaagcagtcc 300

aagtgatcaa gaaagctctg agtcaagttc ttgttcatta ctatcctctc gctggacgcc 360

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gtg 423

<210> 2422
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-043-Q1-E1-C8

<400> 2422

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cattgatcta ctctctatcc ttcctctccc acagatagta gttttagccg ttattccaag 180

cgtcaaccag ccagtctctt tgctaacaaa agactacctt aaattttcca taattgctca 240

atatgttcct cggattctcc gtatgtatcc gctttacact gaagtgacaa gaacatctgg 300

cattgttact gaaacagcat gggctggagc tgcttggaac ctctctctct atatgttagc 360

cagtcatgtg tttggagctt tatggtactt aatctcagta gaacgagaag acagatgctg 420

gcaagaggca tgcgagaaga caaaaggttg taatatgaaa ntcctcnact gtgaaaacga 480

ttggtaac 488

<210> 2423
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-043-Q1-E1-C9

<400> 2423

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gactcagaat tctcaaaggc gacaccttta acctcctcca ctctgtttct ttctccaaca 120

aaaaatgtca aattcccatt tgggtactct ctgtttcatc atctctttac tgggtttggc 180

caatttctca ctttctcaaa ccggtctcga tgattcgact atgcaatctc tcaaatcaag 240

tctgaatctt acatcagacg tcgattggtc taaccctaac ccttgtaaat ggcaatctgt 300

tcaatgcgat ggaagtaatc gtgttactaa gattcagctt aaacaaaaag gggatttcgt 360

ggaactcttc cctactaaat ccttcagagt ctctctgaat tgggtaattc tccgaagctt 420

ttttctcaat cgtaat 436

<210> 2424
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-H9

<400> 2424

gaaacaatgc ttgagctttt aggaagttac aggaatctaa cacttcaaat cctactatct 60

ctcttcttaa cgttagtcct ttcattcgtc aaaatctcaa tcatcttcct ccacggtctc 120

tgtacctata tccaacctga aaatctcaac caaaacaaca ccggaaatgg actccgacct 180

gcgattagac gaccatctag taccgacgat ccaaaatcta atgttgaagt cagaagaaga 240

aacagatcca aagataaatc cgaattcgac gaaagcaatg ctcagatctt tcgaattaag 300

ctcgatgaag atcatctcag atctcgaatg tatttcactg agtacaattc gctattcgtg 360

atatcgttct tagctgtttc ttgctttctt cnagataagt acttcg 406

<210> 2425
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-F4

<400> 2425

ntgtttaccc gccagttttn cgncgnacag tcccggggta aacccacgcg tccgctcctc 60

tctctcntac caagttcaat cacaaggaaa tggagatcca ggcaaagctc atggaataca 120

gattccattt catggtgaca atcatggtga gcgtgattgt ggcgtctctc gtgtatgcag 180

caccaaggat tctgaacatt ttagcctatt tctggcctct gtttgcgtca acagccgcct 240

tcttagcgat ggcaatcacc tttggtggct ttcaacagct ttcagaagaa gccaccggcg 300

agagactgat ggattacgtc gccggacggc ctgaggattc tcacaagtac gactgacaaa 360

gatttgcaca caaaaacaac ttgagagacg atatagaagc taccacctaa gatgagtaga 420

atgagaatgg gcggagattg ggttcttgan ggnntcaaag atgggctcca aagnaaggcg 480

g 481

<210> 2426
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-F7

<400> 2426

ccaatacact gaaatccact tcaaaatatt tatttaataa aaagaaaaga aaagaaaaaa 60

actctgccag gatggcttct ttgatcacaa ccaaagcaat gatgagtcat catcatgttt 120

tgtcgtcaac tagaatcact actctttatt ccgacaattc catcggcgat caacaaataa 180

aaacaaaacc tcaagtccct caccggttat ttgctcggag gatcttcggt gtaaccagag 240

ctgtaattaa ttcagcggca ccgtctccgt tgccggagaa agagaaggtg gaaggtgaga 300

gacggtgtca tgttgcgtgg acaagtgtac aacaagagaa ttgggagggt gaacttactg 360

tccaaggaaa gatacccact tggctgaatg gnacg 395

<210> 2427
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-F9

<400> 2427

tgttacgccg nccggtaccg gaacanaaat tcccgggtcg acccacgcgt ccgcccacgc 60

gtccgcggac gcgtgggaac gaaaggtctt ttctagtcta gtcacttcac ttctacggct 120

actgccatgg cggcttcttt ctcttccact gctcccacga caccggttct tcgattcaga 180

gccaactact ccaagcctct cctctctctc ccagattcgt gtttgaggat aatctcttcg 240

gcgatatctc cctctacacg cttaattgcg tgttcgttca agacagacaa gcttccgctc 300

ggtgccggcg tcaatctctc cggtggcccc gttgtcaagc gctctctaca gaagagattg 360

gtgataaggt ctgctactat tgaagaaata gaagcagaga agtctgctat tgagactgat 420

gttaaatcaa agatggagaa gactattgaa acgcttcggg acgagtttca actccataag 480

ggagag 486

<210> 2428
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-G10

<400> 2428

naactgttta ttcagcccgc ccggtaccgg anccaagaat tcncgggtcg acccacgcgt 60

ccgcgtgttt tttttagaat aacaataaaa aatttgtaca cacatggttt attattgtag 120

ataatattaa tatatatcaa acgaaatttt aaaagtagat gatttatgaa aataattttt 180

gcttatttta attagttctt gagtaaaatt atttatacat tctagatatt aaataatgtt 240

gaatttttaa ttgaataaac actttattat atataaaaat tgaaaaacaa agcaagccga 300

ggaatctctc tctaatctat ctccaagacg gaccaaacca gttttagttc tatctctcaa 360

tctctctgat cagctccatt tccaattttg ttggaaagta gataccttg agaatctaaa 420

ggatctccct ttatggcgga taaggacgtt ccttttgggg ttgaagatat tgttcagacg 480

cctttaactg ggtta 495

<210> 2429
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-G12

<400> 2429

acataaacga cattgatgtt tcttcatcag atcctttaat tcttctccaa ttctcattct 60

ccttacatca atgataaact ttgtagttgg agatttgttg tggatgaaga ttattgattg 120

cagcttatag gaagctgctc tttttgtttt gaacaatgtt gctaactttt cagattctta 180

taattaatca gtcttatgat gagaagttgg ttcttgatta catactacaa tcaagaagta 240

aacagtttat gcaatcttgt gacggttctt gtgttcaaag agtagatact tgttcttcaa 300

ggtggaggtt aacagaggac aattgacggg gtttttaatc gttgttgtat tgctcgaata 360

aacggaatca tggaaaggta taagattttg gaagagctgg tgatggna 408

<210> 2430
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-G2

<400> 2430

ttacccgccn gttcaggccg ccagttcccg ggtanaccca cgcgtccgca aagattaaaa 60

tatttagcaa aaatttccag gaaaagagga gtatccgccc tacttttca gctgagaaga 120

tctttggagg aaccttgtta gctatgtgtt caagtgattt catctgcttt tatgattggg 180

ctgaatgtag gctgattcaa cgtattgacg tcactgtaaa gaatctatat tgggctgaca 240

gtggtgattt agtagccatt gctagtgaca catcattcta catcttgaaa ttcaaccgcg 300

acttagttac ctcacatttt gatagcggaa gacctactga ggaagaaggt gttgaggatg 360

cttttgaggt tctccatgaa aatgatgaac gtgttaggac aggtatatgg gttggtgact 420

gtttcattta caacaactct tcctggnaac ctaactaacg gggttggang gcaaaggtaa 480

cca 483

<210> 2431
<211> 52
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-G5

<400> 2431

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gg 52

<210> 2432
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-G6

<400> 2432

acgcgtccgc ccacgcgtcc ggtcgtctct gtctcctcca ccgattccaa tggaactcca 60

cgccggtaac cggaaaaagt tactagaatc aatacgccgt cagttatcta gttccaatcg 120

ttctctcgat ggatttgttc ttctacaggg tggcgaggag aaaaatcgat actgtactga 180

tcacaccgag ctcttcaggc aagagagtta ttttgcttac ttgtttggag tcagagagcc 240

agatttctat ggagctattg acattggaag tgggaaatct atccttttta ttccaaggtt 300

gcctgatgat tatgctgttt ggttgggaga gattaagcca ttgtcgcatt ttaaggaaac 360

atatatggtt gacatggttt tctatgtgga tgagantaat caagtcctta aaggaccaan 420

tt 422

<210> 2433
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-G7

<400> 2433

tgattctgtt ttcagggttt tctttgcttt gacaatggcg gctgtagcta tttctcagtc 60

aagttcattg tctcctgatt ccagcaaagc tagcaatgcg gctgcatcga tcttcgcggt 120

tatagacaga gaatcgaaga ttgatccaag tgatgagtct gggagagttc ttgataatgt 180

taaaggagat atcgaacttc gtcatattag tttcaaatat ccttcaagac cagatgttca 240

gatcttccaa gatctctgtc tgtctattcg cgctggcaag acaatagctt tggttggaga 300

gagcgggagc gggaaatcga cagtgattgc gttgctacag aggttttacg accctgattc 360

tggtcagatc actcttgatg gagttgagat aaagacattg canctgaaat gggtaaa 417

<210> 2434
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-H1

<400> 2434

acgcgtccga aaaattcttc atcgactcaa attcaaaaac tcatctctct ctatctctat 60

ttctctggtt ccatagctca ccgtcgcatc gcagatctac tccttccgca ataaatttta 120

ccggcggagg tatcagatct cgccgatctg ttgtagcagc tactgtattt tgggcttctc 180

atttgatatt ggggaaacga ggagtagagg acgatggaaa atctgatctc tctggttaac 240

aagatacaga gagcttgcac ggctttagga gaccatggag actccagcgc tttacctact 300

ctttgggatt ccttgcctgc gatcgccgtc gttggtggtc agagctcagg gaagtcttca 360

gtcctggaga gcatcgtggg aaaggacttt ttaccccgtg gatntggnaa tggtactccn 420

aagggcccct tt 432

<210> 2435
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-H10

<400> 2435

acgcgtccgg ggaaagccga ttgccctaat agttgaagat gctgaaagta ttgaagccat 60

caagtcttct tccgcaggta gttctgaggt tgatacagtt aaagaagtcc ctgacagtgt 120

tgtagataaa cctacagaga ggaaagcagg cttcacaaag atcagtcctg ctgcaaagct 180

attgatttta gaacatggat tggaggcatc atcaattgag gcatcgggtc cctatggtac 240

attattgaaa tcagacgttg tggccgcaat tgcttctgga aaagcttcta aatcatctgc 300

gtctacgaag aagaagcaac catcaaagga gaccccgtct aaatcctcct ccacatcgaa 360

gccttctgtg acacagtcaa gataataatt atgaagattt tccaaatagt caaattcnca 420

aagat 425

<210> 2436
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-H3

<400> 2436

acgcgtccgc atgatcaaag ttgcctttct tttggtcatc gagcttgggg tctttcctct 60

gatgtgtggt tggtggctag atgtttgcac tgttaggatg ttcggtaaaa caatgtccca 120

cagggtacag tttttatcaa tttctcctct ggcaagctca cttgttcatt gggttgttgg 180

aatcatgtac atgttgcaaa taagcatctt cgtcagcctt cttcgagggg ttcttcgtcc 240

tggagttctg tatttccttc gtgatccanc agatcctaat tacaatccat tccgagattt 300

gattgatgat ccagtgcaca agcatgctcg gagggtactg ttatcagttg cagtgtatgg 360

aagtttgatt gtgaagctgg tatttttacc aagtcaaacn tgcgaa 406

<210> 2437
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-H4

<400> 2437

cngttcggtc gccaattccn gnnanaaatt cccgggncga cccacgcgtc cgtgaggatt 60

attnanacnn nntcancgac nntcccactt gctaactttc tagtctttgg cctcggccgc 120

gactccctca tgtgggcctc cctcaatcca ggtggcacaa ctgtgttctt ggaagaggat 180

cctgagtgga tagaggccgt cctcaaggac gccccatccc tcagggccca ccatgttcag 240

taccggaccc acctttctga ggccggccgc cttctctcga cttacaagaa cgaacccatg 300

tgtttaccag ctaaagcttt cccgatccgc tacaacgaaa agtgtccctt ggcgttgact 360

tctctccctg atgagttcta tgataccgag tgggatctga tcatggtgga cgcaccaaaa 420

gggtacttcc caaaagcgcc anggaaagat tggnggnana attttcctcg gccatcag 478

<210> 2438
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-042-Q1-E1-H7

<400> 2438

tgattgaaaa cattcaattg aaacaaaaca tattcaaaga aatcgaaaag gtttgttcac 60

cccactgcat tttggcgagt aatacatcta ctatcgacct cgatgtaatt ggtgaaaaga 120

ctaactcaaa agatcgcatt gttggcgcac atttcttcag tccggcccat ctgatgcccc 180

ttctcgagat tgttcgttca aagaatactt ctgctcaggt gattctggat ctcatggcgg 240

ttggaaaggc cataaagaaa gttcccgtgg tggttggaaa ctgcataggc tttgcagtga 300

ataggacatt ctttccttat tcacaagctg cacatatgtt ggccaatcta ggtgttgact 360

tgttcagaat tgacagcgtt attacctctt tcggcttgcc attgggccct tttcaa 416

<210> 2439
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-H8

<400> 2439

ggattagcca caatgtatct tcctctcctc tatcttctgt ttctggcttc ttgcttgaca 60

catcaagctt taggccgtgg tcgtggccgg ccatcaccgg aaggaagctt ggatccttct 120

tctcgcatca ccgtagtcgg agttgtctac tgtgacacgt gttctatcaa cactttctca 180

agacaaagct atttcttaca aggtgtggaa gttcatgtga catgtagatt caaagcaagt 240

tcaccaaaaa cagcagagga agtgaacata tcagtaaaca gaacaacaaa cagaagtggc 300

gtgtacaagc tcgagatccc tcacgtagat ggcatcgatt gtgtcgacgg aatcgctata 360

tcatcacaat gcagtgccaa gatactcaaa acctcctctg acganaaccg g 411

<210> 2440
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-F11

<400> 2440

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tgctacaatg gaatccatcg tataaaaagg gttcatcctc tgattcactc tctcacattt 120

catcgattct cctcatcttc tcttccattc aaatctcaca ttccctcttc acaacaacag 180

cttcgtattc gctcatcttc ttcgctttct gatcttggaa atcgcaggca ttgttcgtct 240

actcgaggat ttcaattttg gtcatnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn naccggcggt tcgtatttcc 360

gacgggaatc taatcatcaa aaaccggacg attctaaccg gtgtaccaag ataatgtcat 420

cacgacgtna gcatcgggaa gct 443

<210> 2441
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-B8

<400> 2441

ggggtgagtg agagagagag agaaactagc tccatgttcg aaacagagnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngaag 120

agaagaaata gaaaaaccag attcaatcta cctccgggta aatccggttg gccatttctt 180

ggtgaaacca tcggttatct taaaccgtac accgccacaa cactcggtga cttcatgcaa 240

caacatgtct ccaagtatgg taagatatat agatcgaact tgtttgggag aaccaacgat 300

cgtatcagct gatgctggac ttaatagatt catattacaa aacgaaggaa ggctctttga 360

atgtagttat cctanaagta taagtgggat tcctgggaaa tgggccaatg cctggtcctg 420

<210> 2442
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-042-Q1-E1-B9

<400> 2442

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cttcctaagc tttttaacag atccggtgaa aatttcaaaa tccgaagaat tctctaaagc 120

tagggtttct taattcacga gacggaggtg atataattcc cccccgtcgt agctatgatg 180

atttcgagag gtttgtttgg ttggtctccg ccgcatatac aaccgttaac tcctgtttct 240

gaagtttccg agcctcctga gtctccatct ccttaccttg atcctggtgc tgagcacggt 300

ggtacaggaa cagcggcgca agcggatgat gaggaggaaa tggaggagcc ggaggagatg 360

gagcctcctc ctgctgctgt tcctttctct caactaattg cctgtgccga ttgccttgaa 420

tggg 424

<210> 2443
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-C2

<400> 2443

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gattcaacaa cagatctgtg agtccattgg agtatattac tattcatagt gatacaatga 180

caagggttac acgcgatttt cgggattcat tacagagaga tggtgttcct gcagtatcag 240

cagatgtgaa atttgcttca agtagatttc ctaattatag aattggagct aatgatcaaa 300

tatttgatgt taaagacgat cctaaagtga tgtccatgaa agaggttgtt gcgcgtgaga 360

cagcgcagct tatggaccag cagaaacgtt tgtccgttcc gtgaactcgc ccaanaaatt 420

ttganaaggg tttggctgca accngcca 448

<210> 2444
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-D1

<400> 2444

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gcgtctttgc tgcccaagag cacaaaggaa ctagcgtcct ctttaaagtc ctctcggctt 120

tcgctttcag agacattagc ctgaccaaga tcgagtcccg gcctcaccat aaccgcccgc 180

ttagggttgt tggtgacggg agctttggga cgtcgaagaa cttcgagtac atgttttacg 240

tggattttga ggcatcgatg gctgagccgc gtgcacagaa cgcgcttgcg gaggttcaag 300

agtacacgtc gttcctaagg gtgctgggaa gttaccccat ggatatgaca ccatggtcca 360

tgacatccac agaagaagca tgaccccatc gccaaaaaca aactcaccaa taaatttatt 420

taaattattc tgttctttct cnttttgtga aaattgtagt atacatttga aatttaaacc 480

cttaagttta 490

<210> 2445
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-D11

<400> 2445

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tcaatggaag gatttaatcg gataaaagag aagagacgga atcacgacgg gagaagagat 120

cgggaaatcg gaaaatcgga gatgatgggg atttctttcg ccgccaaact ccgtttccga 180

tctcgatttc gaacttcttc aatcgattct tattgcttcg ctcgtgaggc tttctccgat 240

tgtatctcct ccgtccattt cttcttctta taacctttt ctttgtcaga tatcgtccat 300

ggaagaggct gattttgccg agaaagatcc ttctggccgt tacatcaggt atgatgatgt 360

tctggggaga ggagctttca agactgtata taaggngttt gaccaaatnt accgggaa 418

<210> 2446
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-D2

<400> 2446

aacatttcac acacacattt gtcgaaatct taacaccaat cccaaatcag aaaaatcaaa 60

acttttttatt ttattttatc aaaatggcgc ttatgaatgg aagcatgaat ctatcatcgg 120

tcaaatcatc gatgatcaac caccgtcaac caaacttctc ctccgccgtc tccagaccca 180

cttctttccg gatctccgcc gtgcaaaccg acccaaaaac accagctgct tcatcggcgt 240

cggcggcgac gacgactccg gcaacgttga cgaagcccgt tggagttaat gtgggtaaag 300

gaaaatgggc accagagagt tggaggacga agaaagcttt acagcaaccg gactatccag 360

atttagctgc gcttgaagct gtgctagaga cgatngaagc ntttccnccg attgngnttc 420

cccgggaaaa actaa 435

<210> 2447
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-D7

<400> 2447

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gtgattcaga tgtgtcgaaa gggatgtgtt cttgtttgat tcaagttctt gatgaggctt 120

ctcctgtaga agttatggag ttgaagactg aggatttagc tgagcttaat gttggtttgt 180

tgggtggaga gagatcgaga gttaacactt ggtataatgt tcttgtgagt atgcagaaga 240

agactcgacg attagtagcg gagagggaag gtaaagttcc ttcctttgag ccatttcctt 300

cacttgtgtt aacggctcat ggcattgaag ctaaaggaag ctttgctcaa gctcangcga 360

aatatttgtt tccggangaa tcacnggttn aanaaacttg caangtgttt taa 413

<210> 2448
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-D8

<400> 2448

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ttggaaagat gggtaacaag ataatctcaa tgatgaagaa agatagcaaa gatggaggag 120

gaggaggatc taagagcaag agaatgaatc ggtctcagag gaaattactt gctgatgaag 180

agatgttgca tcgtcgagct ctttccatgg cgattcatca agctcagctt tctcagagat 240

ttgatggatc tatgtctaga cgggtcgggt ctactagtac taggaaacgt actctctctg 300

acccgttttc taatggcaag caggttaagt cactactgat tctcaatctt ctccacactt 360

ataaaagttt caatcttgaa aagttcaaaa ggtttcattt ttaaatgant taaagggt 418

<210> 2449
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-E11

<400> 2449

aagaacgtga tcataaccat cgccgagccc acttcggtgg aacaggggt gtgaagagct 60

gcacaaatta ttctccagtt gtaaaatcgt tgatcgaagc aaagtcttcg ggtttctctg 120

atgtcttgtt cctggatgcg gcaactggta aaaacatcga agaggtttct acttgtaaca 180

tcttcattct aaagggaaac attgtatcca ctcccccaac ttcaggaacc attttaccag 240

gaatcacaag gaagagcata tgtgagctag cccgtgacat tggctatgag gttcaagaac 300

gtgatctttc tgtggatgag ctattagagg cagaggaagt tttttgcacg gggacggcag 360

tggtcattaa agcctgttga aaccgtgaca ttccatgaca aagaggggta aaaatn 416

<210> 2450
<211> 376
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-E12

<400> 2450

catcgtggaa gagccaaagc ggcgagagaa gaaacacgag gcggcggatt tgccacgtgt 60

tgagctgacg gcgattgact tgcaatggat gcatgtatta agcgaaggct gggcaagtcc 120

actcggaggt ttcatgagag aatccgagtt cctccaaact cttcatttta actcgctacg 180

tcttgacgac ggctccgtcg ttaacatgtc cgtgcctatt gttctcgcta ttgacgatga 240

acaaaaagca cgtatcggcg agtctacacg tgtcgctctt ttcaattccg atggtaaccc 300

cgtcgctatc ctcagcgata ttgagattta taagcatcca aaggaagaaa ggatagctag 360

aacatggggt acgacn 376

<210> 2451
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-E4

<400> 2451

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aancgtacta ttcagtttgt ggactggtgt cctactggat tcaagtgtgg aatcaactac 120

cagccaccaa ctgttgttcc aggaggtgat cttgctaaag tccagagagc tgtgtgtatg 180

atctcaaact ccaccagtgt tgctgaggtg ttctcccgta ttgatcacaa gtttgatctt 240

atgtacgcaa aacgtgcttt cgttcactgg tatgtgggtg agggtatgga agaaggagaa 300

ttttcagagg ctcgtgagga tcttgcagca ttgganaagg attacgaaga ggttggtgct 360

gaaggtggtg acgatgagga tgatgaagga gaggagtact aagaaggttg tcggttttat 420

gtgggatttc tattatctcg tgtttgtgtg aataaggctc naaactccta 470

<210> 2452
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-E7

<400> 2452

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tactcttccc tcttcttctt ctccactttc acactgtctc ctttgctcaa gacgctcttt 120

gtgttcggag atggtcttta cgacgccgga aacaaacagt ttctctctca gaaccgagtt 180

gacgcaagct ttcctcctta tggagtcact gtaggacaag ccaccggacg gtggtccgat 240

ggttctatcg ttcctgatta tcttgctaaa ttcatgggaa ttcctaaaat ctctccgatt 300

ctcctaacca cggcggattt ttctcacgga gctaatttcg ccatcgccga cgctaccgtt 360

cttggctctc ctccggagac gatgactttg tcacaacaag tgaagaaatt ctcgggaaaa 420

caaggaatna gttgggc 437

<210> 2453
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-F1

<400> 2453

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tgctccaaaa gctcgtatcg ccgcctacaa agtctgttgg aaagattccg gttgtctcga 120

ttccgatatt ctcgccgcct ttgatgccgc tgttagagac ggtgtcgacg ttatatcgat 180

ctcaatcggt ggtggagacg ggattacttc gccgtattac ctcgatccaa tcgctatagg 240

ctcgtacggc gccgcgtcga aaggaatctt cgtctcttcc tctgccggaa acgaaggacc 300

taacggtatg tcagttacga acctcgcgcc gtgggtaacc accgttggtg ctagtacaat 360

cgatcggaat ttcccaacgg atgctattct cggcgaacgg catcgtctca aaagaatnnn 420

cccnttaacc cgggagtacc ttt 443

<210> 2454
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-042-Q1-E1-B4

<400> 2454

aatgttaccc tgccggtttc ggtcgagaat tcccgggtng acccacgcgt ccgtggagtt 60

ctctacctca aaacgtccgg cgacgacagc gacggcggcg gagtctgtac atttccgtct 120

tctctgtccg gcaacaagaa ctggtgcaat aatcggaaaa ggcggctcag tcattcgaca 180

cctccaatct gtaaccggtt caaaaatccg cgtcatcgat gatattcccg ttccttcaga 240

agagcgtgta gtgttgataa tcgcacctag tggaaagaag aaggacgaat cgaatgtgtg 300

tgattccgaa aaccctggct ctgaagagcc taagcaagag aaagggagcg agtgtgcggg 360

gactagtggt ggagatgacg aggaagcgcc gtcgtcggcg cagatggctt tacttaaggt 420

tttccaaaga atantgtttg gggaagaccc ctgcaacggt tgatggggga annaattggg 480

ntaaaaggtg aaagt 495

<210> 2455
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-H1

<400> 2455

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ggaagaagaa gttcccgaca cttgtgagag actataaaag tatacgatct cctcctctcg 120

ctctcttcag atcacaaagt tttcgttttt agggttctct catcgatctc ggtttgtgat 180

cttcttcttc atcaatggcg tctagtgata aacaaacaag cccaaagcct cctccttcac 240

cgtctcctct ccgtaattcc aagttttgtc aagtcaaata tgaggatttt gatctcagga 300

ggagctggat tcattgggtt ctcaccttgt tgataagctg atgggaaaac gaaaagaatg 360

aaggtgattg gtggctgata actatttcac tgggttcaaa aggacaacct taaagaagtg 420

gattggtcat ccaagatttg agcttaaccc gtcacgatgt cacgggagcc acttttgatc 480

nagggtgatt aaaat 495

<210> 2456
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-H10

<400> 2456

atccatcatc gtcactttct cccggcgaat tccgttttat cgatttaagt aacgagattt 60

gtgcaaagat gactcaggac gtggagatga aagataacaa caccccttct caatcgatta 120

tctcttcttc tacctctact atgcagaatt tgaaggagat tgcancactc atcgatactg 180

ggtcttacac ganggaggtt cgtcgtantg ctcgtgctgt gcgtctcact atagggctta 240

agcagaaact cancggctct gtgctctctt ccttcctgga ttttgcnttg gttccaggat 300

cngaanctca ctctcgcctc tcttcctttg ttcctaaggg tgatgaacat gacatggaag 360

ttgatactgc ctcatnggnc acataagctg ctccntctaa gcatctacct gcagagctcg 420

a 421

<210> 2457
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-H11

<400> 2457

acgcgtccgg tcgatgtcac tcggcggtgg aatgtcggat tattatagag acggtgttgc 60

gatcggagca ttcgccgcca tggaaagagg gattttagta tcttgctcag ctggtaatgc 120

tggtccgagt agttctaagt ttatcaaacg tagctccatg gatcacaact gttggtgctg 180

gtactttaga tcgtgatttt ccggcgcttg cgattctcgg taacggcaaa gaatttcacc 240

gggagtttcc tttgtttaaa ggagaaagct ttaccgggat taaattgttg cccgttttaa 300

tttacgctgg ggaaatgcta ntnaatggct actaaattgg gtaatcctct gttatgaccc 360

ggaacttttg gattcccggg agaaaagnta aanggggaaa naattgtgat ngttgttgat 420

aagaaggaaa ttnaatgcta ggagttcaga aaagggtgat gttgggttna aagc 474

<210> 2458
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-H12

<400> 2458

aaaccaacaa aaatccaact caaaatcgaa gaccgtgaag agcttgaaca atcccgcaaa 60

tctcaaccat ccagcaccac anncaccgca ccatcttcct cctccgccgn ctcctctctc 120

caccacctca tagacccaaa acacaaaaac ccttcctcca aatccgaccg aatcggtctc 180

tcttaaaaca ctccatggaa gtcgaagtca agctccgtct cctaaccgcc gctgctcatc 240

tccgtctcac cactctcctc actccatacc acctcaanac ccttcancaa cgcaacacct 300

tcttcgaana cacccaaaaa cgacctctct ctcngccgcg ccgtcctcng tctccgcttc 360

nttcaaaacg ccgccgtttc cgcggcttct cnttctccgc gcgttgtatc gtcnct 416

<210> 2459
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-H4

<400> 2459

ttnctccttg attttcgcat tctttagagt cttaacgcaa agatgagacc tcctctaact 60

ggaagtggtg gtgggttcag tggtggaaga gggcgtggtg gatacannnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntttcagc 180

gaccgtggtg gtcgcggcaa gangaagagg accaccacgt ggtggtgctc gcggcggcag 240

aggaccagct ggccgtggag gcatgaaagg aggaagcaaa gtgattgtgg aacctcacag 300

acacgcanga gtgttcattg caaagggtaa agaanatgcc cttgttacca agaatttggt 360

tcctggtgaa nctgtctaca acgagaagag aatctctgtt cagaacgaan attggancaa 420

agactgaata caaaattttg ga 442

<210> 2460
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-H8

<400> 2460

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cttatctctc tcttatcacc ggttcaatca ctaaaccatg gcgacctccg tcgataaccg 120

ncattatccc accatgaacg gcgtcgctca agccttcaaa cctcctctcg ttccttctcc 180

tcggctcant cgaccgccaa cgtcaccaaa accaaactct cgacgtcatc ctcagcgaaa 240

ctaaaatcgt caaataancc cgatgtcatc atcancgtcg tagacagtta cgaacgactc 300

ctcaagcgac gacgaagacg aagagccata accgtaacgt ccttactaca anagagctgg 360

gttanaaaat canacagcga tttagaaccg tcgattttag atccgagaga tgaatcaacg 420

ggtgaatagt tggnttcaac gtaactcatc catgctccgt ctcancgggg aaaacatcca 480

attcaangcc ga 492

<210> 2461
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-A1

<400> 2461

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ctttgaaatt cacaccaatt tgtctctctt cctagagaaa caaangatta ttcgaaactc 120

gggaaagtat catccggtca ccggaaaatt gattatttcc gatgccaata ggtgaccgtc 180

agaatccgag tgtggagaan aagaagaacc tcttcaggct atgtccgttt tggcagagga 240

gaagcaccac ttcttcatct tcaacacaga atccaaacca naactaccgt agccgccatg 300

gaaatcggga tacagatatt tccgccgtct ctaagcctcc gttgactatg tcttccgtcg 360

ccaagatnac ttcttccagc tcgccgtcgt ctccgactag attcttccaa gttanctgta 420

attccc 426

<210> 2462
<211> 232
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-A11

<400> 2462

gtcnacgcat ccgaacagtt gcaaggataa tatcagccca ggatcaattg gtggaagttg 60

cgaaagagga ggcgagttcc ataagtaata taattgctca ggctaccaag tagtcctttt 120

ctgaactttt cttatgcagc tgaaacaatc gtaaatgagt taatattttc cttaaactct 180

gagatattct cttctgaatc acacttttgt ttgtcaaaaa aaaaaaaaaa gg 232

<210> 2463
<211> 425

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-A2

<400> 2463

gtacatacaa acaaagagtg gtgcacctcg tcaactcgac ttcggacgag tctttgttat 60

gtcaaggtct ggctttgaat gatgacttgc agcgtgtctt aaccaattat gaagcaattg 120

cttctggatt acctggaact tcttctcaga tcgagaagcc caagtccgag acaggaaaat 180

cccttgttga tgttgatggt ccacttattg atacagggga cagcagtaat caggcgaacg 240

gagctacatc gagctctggt aacggggttc taaatcagtt ggccctccct gcaccacctg 300

taactaatgg ttcagccaat tccaaaatag acctcctcag tggcgatgat cttgcccttg 360

ttcctgttgg acctcctcag ccagcaagtc ccggttgcat caagatnaaa atgcactcgc 420

ccttа 425

<210> 2464
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-A4

<400> 2464

cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc 60

ctgataatgg gagcctatga aacagaaaaa ccaactaaag atgcggcggc tctagagaca 120

cagtcgccgg aagatttcga tcaaccatct ccgcttcgta aaatcatctc cgtcgcttcc 180

atcgccgccg gtgtacagtt cgggtgggcc ttacagctct ctcttcttac tccgtacgtt 240

caactcctcg gaatccctca caaatggtca tctctcattt ggctctgtgg tccaagtctc 300

cggcatgatt gttcaaccaa tcgtcggttt ccacagtgac cgatgtaggt ccaaatttgg 360

tcgccgtcgt cctttcatcg cc 382

<210> 2465
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-041-Q1-E1-A5

<400> 2465

acgcgtccgc aatttttata gctttcttcc tctccaaaac cacaccaaaa aaaaaaaaaa 60

aaaatttgat tttcagatcc aatcaaccag agatgagaga taacaacaat aacaacacaa 120

gagaagaaga gagaagcagt tcttcaaagc agcaacaacc acaagctcct atgtctttga 180

agatcataga ttcatgtctc agactaagtg tggttcctct cagtgttgca accatctggt 240

taactgtcac taaccacgaa tccaacccgg actacggcaa tttagagtac aactccatca 300

tgggtctcaa gtatatggtt ggtgtgagtg ccatatctgc tatttatgct ctgctctcta 360

ctgtttcttc atgggtcaca tgtttagtct ccaaagcttg gctcttcttt atcctgacca 420

g 421

<210> 2466
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-A7

<400> 2466

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gtgttgcaga aaatggcaac tactagtact actacaangc tctccgttct ctgctgctct 120

ttcatttcat ctcctctcgt tgactctcct ccttctctcg ccttcttctc tccgattcca 180

cgattcctca ctgtccgaat cgcgactagc tttagatcga gctctaggtt tccggccacc 240

aaaatccgca agtcttcact cgccgccgtg atgtttccgg aaaattcggt tttatcaaga 300

tgtctgcgcc gtttggagtc actagcatcc gttgcgttct cgtgcctcgg tttctgggga 360

gagattggca aacgtnggca tnttcgaaca anannctcat ccggaagcnt gtgcaat 417

<210> 2467
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-B1

<400> 2467

aagaactcaa gctttccaac actataaatc tataatacag cttttattct caaattttgt 60

ttgtcttacc atcattacca aaccatgcaa gccgcaacgt cgtgtgatct caagttccga 120

tcaacagatc cgacgtctag gaacaaatgt ttctcccacg cgattccaaa gcgcgtggct 180

gttacgtgcg gttataggtc ggagtcgttt agcttcccta acggtgtctc cgtgagtcga 240

tctgattggc aaagctcatg tgccatttta tctagtaaag ttgcttctgt tgaaaatacc 300

ggtggtttag cggacaaaat cgccgccgtt aatggtcaca cgaacggctc tgtgaatctt 360

ggtcccgtcg ccgttgngtc aactaacgga aagttagctc ctggctcaag ccgttgacta 420

aata 424

<210> 2468
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-B10

<400> 2468

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acttttccaa tcaaaacgta aagaagaaga ggaagaatgg ctacatgtcc tcctttcgat 120

ttctcgacca aatattacga tggtgacggc ggatgccaga ggcagagcag cttcttcgga 180

ggcacgacgg tgctcgatca aggcgttggc tacgccgtga ttcttggttt tggtgctttc 240

tttgccgtct tcacatcttt tttggtatgg ttagaaaaac gatatgtggg agctcgtcat 300

acatcggaat ggttcaatac agcgggaaga aacgttaaga caggacttat tgcaagtgtc 360

attgtatcac agtggacatg ggctgcgacc atactgcaaa gttcaaacgt agcatgggca 420

gtatggggtt agtggaccgt tttggtacgc tagtggagcc accatacaag tgccgttgtt 480

tgggg 485

<210> 2469
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-G9

<400> 2469

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caataatggc gatgatcata ggcttacttg aaatcttcat cgcattcatt ttcttctttg 120

tctaccagtg tttctcgctc cacaagaaaa ctccaaagca tatggtcatg aactggccgg 180

tccttgggat gcttccgggt gtgctcttcc aaatccctcg tatctacgac tttgttacgg 240

aggctcttga ggcagaaaat atgacgggtt gtttcatagg gccatggctt agtggaacag 300

acatattgct cactgttgac ccggtgaata tccagtatat tctaagttca aacttcgtga 360

attaccccaa agggaagaag tttaacaaga tctttgaatt cttgggagat gggattttca 420

acgttgactc cggcttgt 438

<210> 2470
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-E4

<400> 2470

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accgtcaaca gatgaggcat actcctcctt gagatcagcc tcagactctt cttcatcctc 180

gtcggaaatc acataatcct catctgactc atctgaaccc ttatccttag atctaacctt 240

tctattagaa tttctagccc aagacgtgtt tctctttccc atatgctcct caaaataaga 300

tatagaaaca aaccactaag gcactaatct aaatctaaac tcatcaacca aaaacacaat 360

gattccttca gctccgtctt gttctaaaaa cttatatagc ctagaccaaa tcacccaaga 420

aatctcaaac ctcaattctc cgaattcaga gcaagaagat ntgcaaaatc aacccaaana 480

acaaacaaga aatcaagga 499

<210> 2471
<211> 448
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-E6

<400> 2471

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acgcgtttcg tgttttgatt ttccccgaaa cctttcgttg ttctgggtta ctgtgtgagg 180

aaggacgtgc aaatttgttt ggaagttgtg ttaagttaaa gcagagtatt gganatcgtc 240

tgatagagaa gagaatagtt cttgtgtaag gttatgggtt cagtttgttg tgtagctgtg 300

aaagacanaa angttcctcc tagtggtgga cctgcgagtt catctgttca tcggaattca 360

gcatgttcgc cacaatggag ttttcgacgt gataatanga ggcgagtggc tgatgagatt 420

gagggttcac cttattacag tccttaag 448

<210> 2472
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-E7

<400> 2472

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nnnnnnnnnn nnnnnnnnnn nnnnnnntct ccggtgtatt ccgttctccg ggaatttctc 120

ngaagaggga gagaggaaaa nnaaaacgtc cgattcaatc tcttcgttgc tcgacgaatt 180

tttcttaagc tttccttatt ggagatttga agattcngag tggntgttat gataatgtgg 240

gtttgattag ttcttcacag anagcttctc aacgcgcatg gattcttctc tcgatggagc 300

tgcangtgac tcatcnaaat gcantgaaat gagtgttgat gaagaagaga cagcntgttt 360

aagaactgtc gaagcaatca catctagctg ctgaagtctt gcaaggcatg gancngnnaa 420

agagaatcca acanatttt 439

<210> 2473
<211> 419
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-E9

<400> 2473

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ctcttgtctc gtaattccat cttcaaagcc ggtttattca gtcccggngg ngatgattcc 180

tctaccggtt tctacttcnc cgtcgtccat gtcgattccg gntcaacaat ctggtcatca 240

aatcgagatt cccctgtttc angctcnggt acaatgaatc ttactcctca aggaatctct 300

gttattgaag atggtaaaag tcaaatacca gtttggtcaa cgccggtttt aagcttctcc 360

ggttaantcc gttcggttaa ccgacgccgg tagtctcctt cttcttgatc acttgaacg 419

<210> 2474
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-F1

<400> 2474

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tccccttttct tcttctgaga tacgcttctc tactccactg ccatggagct ctaatgggtc 120

tctgcaattt tcattctttt cctcttttct tctgagaatt tcagctcaag aaccatggat 180

gagtcttctc ttgttcgttt tgtgttcctt ctctgtttgg tttcgtcgtc tgtgttctgt 240

ttggctgagt ctgaccaaaa cgcaaccgtt tcttctgctg tttacattgt tactctcaag 300

gaccgtccat ctgttcattt ctccggcaag agaatcgagt gactctaaac acaagcctta 360

ccgctacttc gtcccaaatt tacaagaaca ttgaaccgaa gtgcttctat tattaagagt 420

tcangattca ttgctgagaa atgtattgag aaaggagaat tancttaaag cnttaaaggt 480

aacaact 487

<210> 2475
<211> 445
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-F3

<400> 2475

cttcntcnca atctctctga tagagaaacc annagcacaa nnngnnanga natttactgt 60

gaccatggat ccaggagatc ctacttcgat acttttcaca aagatcagaa ctttagaacc 120

agatttcgct tccaaaatca ttggntactt gcttttacag gacttgggta agacagattt 180

gatgcgtttg gctcttggac cagagactct cttgcagtcc gtttgtctca aagctaaatc 240

tgctttaggt ctttcttcta atggatcntc ttcngcttct tcgccattga accctatctc 300

caagacccat taacatccac cgtcattctc tctctcactc ttcaccggga aatgggtttt 360

cgangaaccc tttgtctccn tcttttgcta ctcctgggtc actcgggtag taaccctaac 420

atgaattcca atccgtttca aagca 445

<210> 2476
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-F4

<400> 2476

actgttacgt tggccgggcc cggtccnaaa ttaccgggtc ganccacgcg tccgcacaag 60

tcaactttgc attataactc catttgccct cctggttcat cttgttctct accatggctg 120

attcaaaatc tggtgacacg gaagtagcgc atcgctcnag cgatccaagc gaaaagcgtg 180

gtggctggat cactttaccg ttcatgctag ttacattatt aggcatgtcc ataacttctt 240

tcggatgggg aatgaacttg atcgtcttct tgatcgagga attccacatc aagaacatcg 300

ctgctgctca gatttcaaat gttgtcaatg gagttgtcaa catgttacct gttgttgcag 360

ccatcctagc tgattccttt tttgggaaca ttcncgtcat ctccacctcc actttcattt 420

ctctggctgg aacctctctc ttgaccttaa tcacatcctt tgaactactt gatgcctaaa 480

accgtgtnaa accggggca 499

<210> 2477

<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-F8

<400> 2477

ggtaccgant ccaaaaattc ccgnggtcga cccacgcgtc cgctcttttc tctgtctttc 60

tctccctgca gttaccggat tcctccactc cggctagatc tccccgttca ccgccgatga 120

cagaacgaat canagcaaga ggacccagat catcctctgt taactctgtt cctctgattc 180

ttgacattga agacttcaag ggtgattttt catttgatgc attatttggg aacctggtaa 240

acgacctctt gccgtctttc ctangacgaa gaagcagatt ctggggatgg ccatggcaac 300

attgctggag ttgatggttt gacaaatggg catttacgtg gacagtctgc tcctttgtcc 360

tctgctcctt tttttcctga agtagatggt cttttgtctc tgttcaaaga tgcttgcaan 420

gagttagttg atcttcggaa gcaagttgat ggaaagctca atacactaaa agaanggaag 480

tttcaaac 488

<210> 2478
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-G10

<400> 2478

gcttacgccn gccgaaaccg gtccaaaatt cccgggatcn atcntcntca tctttgtttc 60

agcttcncct ttgaaactag attatctccg ttaatggcgc ctcagatcta accttgggag 120

ttatatatat atacttgttc aactcttctt cgaacgctgt ccaacttctt cctctggttc 180

gatcatcgag atctcgaggt tatttggccg caatgcagaa gcgaatagcc ttgtcgtttc 240

cagaagaggt actanagcat gtgttctcgt ttattcagct ggataaggat aggaactcag 300

tctctctggt gtgcaagtca tggtacgaga tcgancggtg gtgcaggagg aaagtcttca 360

tcgggaactg ctacgccgtg agtccagcga cggtgattag gaggttcccg aaagtgagat 420

ccgtggagct taaaggaaaa cctcactttg ctgactttaa nttggtacct gacgggat 478

<210> 2479
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-G2

<400> 2479

tgttacgttg ccgggcccgg tccnaaattn ccgggtcgac ccacgcgtcc gggaatccat 60

tgtttcattt gaagaaaact ctaactttct cgttgangct ttgagctctc tacctcttta 120

tctccggaga tgtataataa catgggacct caaccgggga tgccaagacc tccangaaac 180

cctgagcctg gtccatttgg taatcctttc actggagctg gctcgggttt tatccgtggt 240

ggtttgggan cgtangggga gagaatttta ggatcnagct ctgantatgt tcanagcant 300

ataagccggt acttctctga tccgcaatac tatttccaag tgaatgatca atatgtgagg 360

aataaactga aggttgttct gtttcctttc cnacaccggg gacactggac caanaatatc 420

tgaaccagtt ggtggtaggc tctcatacaa gcctccaata tatgatatca atgctccata 480

cttgtacatt cccntta 497

<210> 2480
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-G4

<400> 2480

ttacnttgcc ggccgggtcc anaattaacg ggtcgaccca cgcgtccgat taggggataa 60

taaggaagta tttgaaanaa gaaggtggca agcaagcggt tctttcnagt actttggggt 120

cnttaatatg ggagaagcct acatggaccg acttcaagca gcttgccaaa gaaagcgaat 180

ttgcggcatg gacgcttatc cacggctaca caatgaatca tcttgctttt gcggttcatc 240

gattcaaaca tcgtttcagt gacatcaaat tcgtcaaaca gcgtcttgag gaaaagggat 300

tcaaactcaa cagtgacgga gaaatcctca aagtgagtca agatggtcta ctatttcaag 360

tttcatcgat ctcggaaagg cttccggtaa catttgcaag atggagtaac tgaaacaatc 420

ccagcttcat acattgaatt cactcaagcg tcaagttcct ccaaaggtca aaagatgtgc 480

cgcctgaaga agattnaag 499

<210> 2481
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-G5

<400> 2481

cgccgnccgg taccgagtcc aaaaattccc gggtcgaccc acgcgtccgc ttctctttct 60

cttagcatat tctgctcttc ctctctctgt tgttcnctgt tccaaaggct ttgagaaaaa 120

atggagttcg agaacnggta cggacttgca acgtcgcaga agtacgactg tctcttgttc 180

gatttggang anactcttta tcntcttagn tccggaatcg caagagaatg tgggaacaac 240

atcanagatt acatgaccga naaactcggt atacctaang acaaaatcgt cgaattgtct 300

gatcttctat acaagaacta tggaacaaca atggctggtc ttagggcgat cggatatgaa 360

tttgactacg atgagtacca cagcttcgtc nacggtcgtt taacctatga caacataaaa 420

cncgaccttg ttcntcgcag cctccttgct tagcctccct ctccncaaaa gtcatcctta 480

caaancggac aa 492

<210> 2482
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-G6

<400> 2482

acgcgtccga gccccaatag caaagataga aaaaagaaac tttatttctc ttagtaatac 60

aataatccnt atagaacggg tcaagcaaga tatctttttt gtttgtttcc cttgttaatc 120

gttataaact tgtttctcaa taaaacttga gtttttaaaa atccagtctt gcaaattcat 180

cgacgatgtt agatccttct tctgctaaat ccttcaatac ccatttgtgt tttccgagta 240

ttcccaatga tgatcactca gattccggtg tctgttcgcc tactttgtgg agaaccagtc 300

ccccgaagag tcctcctcct tttcaccggc cggaagatta ctgggagtct ttcgccggat 360

tctaaagcac aggctattgc tcgtggtcaa cggggagctt aaggnaatgg ttagtaaaga 420

tgcctgagtc cgtgttacga gctttcantg aagg 454

<210> 2483
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-E3

<400> 2483

cnctttcttc cntcctctcc gatctccgtt cacatctctc tctcatcttt agcttcttct 60

ntttttgcct tgtgggttga aagtttctat antttctcnt tctcntctgt ttacacaacc 120

cattttcagg ctcaagcagc ngaagaataa cgatcannaa ccannnnaga ngaaaacgaa 180

tctgttctta gctttgatgg gttcttgctt cagttctcga gtcaaagcag acatcntcca 240

caatggtaag agcagcgatc tttatggtct aagtctctca agtcggaaat cgtcttcgac 300

tgtagcggcg gctcagaaga cggaagggga gatattgagt tcgacccctg tcaaaagctt 360

caccttaac gaaactcaaa ctcgccacaa gaaacttcaa gancaagata gtgtgatcgg 420

gagaaagggg gctttgggtt gtgtccttn 449

<210> 2484
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-C1

<400> 2484

ctgttactct tgncccggcc ggtccaaaat tcacgggtcg acccacgcgt ccggtttaat 60

acatgtcctc ttcgatggaa accaattcac gggcgaaatt ccagagaccc tcagtctcgt 120

taaaacgttg acggtgttac gccttgatag gaacaaactc attggagata ttccttcata 180

tcttaacaat ctcacaaatc ttaacgaact gtacttggcc aacaacagat ttactggtac 240

tcttccaaat ttaaccagct tgaccagtct ctacacattg gatgtgagca ataacacttt 300

ggatttctca cccattccat catggatctc ttcattaccc tccctatcaa cattaaggat 360

ggaagggatc caacttaatg gtccaatacc aatctcattt ttcagccctc ctcagttgca 420

gactgttatc ttaaagcgaa atagtatagt ggaaagctta gactttggta caagacgtta 480

agcanccagt ttgaatttgg tgg 503

<210> 2485
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-C10

<400> 2485

acgcgtccgc ccgtgtctag ggttttcttt cgtagctgat tgggggctgc aagagtttcg 60

ccgaggacga ttgagaattt tgattttcga aaaatggatt ctgtggagga agaaggtgtt 120

gttagggttg aagaagagaa cggacgcggt ggtctccgta ggcatcggag ggtttctacg 180

aagctggcga attacgtaga tcctccgact gacgacgaag aagatggagg acccaagcga 240

aagggcaaaa ggggtggaaa tagggctccg aaaaagacac cgaagaaaga cgaggagatg 300

caaaagaacg aaattgatga agcaaaccga gtcactggtc tggtgaagga aaaaagagcc 360

gcgactaaga ttctgaatcc caanagactc cattaattga anttaggaga agcntccngg 420

aaaccatgcc caagggaant aaagg 445

<210> 2486
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-C6

<400> 2486

acgcgtccgc ancaacacaa cacacgcaga agagagagag agaacantca aaaagaagga 60

gcggttacat attctctggt ctgtcacaag aaaaatggat atctgtatgg acaaggagcc 120

agatggtgtg gtggtctatg cgaacggtga ttcgtgtaat ccaaaccaan aaaatgtttc 180

tgagcctctc ttagattcag tatcangcga tgatgctaat gtacatacag agcttcgata 240

tggggaagag aacatcgaag taaacgaata tgatgttaaa gagtgtacta ntgagatccc 300

cgttggtaag ccgataggag atgattttga gtctaaagat gtcactaagt caagtttaca 360

tgcaaagcat gcttcaaaat caggtacagg gaataacaag gcaaggaaca cccgttccac 420

aaaccgtttt cctttagcaa ctgagaaact tcctcc 456

<210> 2487
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-D1

<400> 2487

acgcgtccgc gaaaagctaa gaactttctt cgtctctatt ggtctctcac tctctctctt 60

acctcttctc atttgttctt tctccttcta aattgggtta tcaagtatat tggatcaacg 120

ggtttgattc acgatttgtc atttcatctt cgtggagaga gtttgatctg atttgttgat 180

cgtcagcgtt atgtctagtc cgagaagtaa caagccgaag attgtcaacg gtcctggtgg 240

ttatattcta caagacgttc ctcatctcat tgattacctt cctgatcttc ctacttatcc 300

aaatccattg caagacaatc caagcttact caagtggtta agcaatactt tgttcatgct 360

gatgatagtg tccctgagaa ggttgttgtt cacaaggatg gtccaaagan gagtccaatt 420

caagcgtgct gggtccaacg tcnaaaaggt taactttgag t 461

<210> 2488
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-D11

<400> 2488

gcttacgcct gccggnaccg gtccagaatt cccgggtcga cccacgcgtc cgcccacgcg 60

tccgcccacg cgtccgccca cgcgtccgct tcttcttggt ctcttctcca tctcatcgga 120

gctgatctcg aattgttctc cgttcatttg ttacggtgga gatgacatcg gatcaccgcg 180

acgctctttt ctctctggaa ctggaatcgc ctgatccgga cgaaggaggt gtagcagacg 240

gaggagaatc tgataccgac gaggatttgc gcgacaacga tgatgttgtt atgccgggaa 300

cgaacgaagc tgaagctgaa gacgacgatc ccgaagagga agatctcaat tctccgtcta 360

catcatcact ccccatggtt tctacgatct cagcgactgc tgttgtttcc gggaccccga 420

cggcgacttc ctctacaggc gccgtgaccg ttgcacttcc ggctggattc gccgtccctg 480

tctc 484

<210> 2489
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-D12

<400> 2489

gnaagtgttg acgcctgccg gnaccggtcc agaattcccg ggtcgaccca cgcgtccgca 60

ncaataatga tgattcctta ttaactacga gccagatttg ccatggagct cacgaccaag 120

actcatgcca ngctctcttg tccgaattca cgacgttgtc gctctcaaag ctcaaccgnc 180

ttgacctatt gcaggtgttt ttgaagaact cggtgtggcg gcttgagagc acgatgacca 240

tggtgagcga ggctaggatc cgctcgaacg gtgttagaga caaggcaggt tttgctgact 300

gcgaggagat gatggncgta tcaanggatc ggatgatgag ttcgatggag ggaacttcgc 360

ggaggaaact ataatcttga gtcatactca aacgttcata cttggctgag cagtgtgctt 420

acaaactaca tgacatgttt agaaagtatt aantgatgtc ccccgtcaac tctaagcaaa 480

atagtcaaag 490

<210> 2490
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-D2

<400> 2490

cttcctcttt ctctacttca tacataattt catttctcag gtttctatat attttcttct 60

ccacttttta taatttatcc gcttgtctgc tatctcttac attaaatcta aacctaaatc 120

attagaannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnggca tggctggtct cgatctaggc acaacttctc gctacgtcca 240

caacgtcgat ggtggcggcg gcggacagtt caccaccgac aaccaccacg aagatgacgg 300

tggcgctgga ggaannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn naggtttaga 360

tttaatagct tctaatgata actctgggac taagcggcgg tgggangagg anggagcggt 420

gacctcgtca agcgtccggc aa 442

<210> 2491
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-D3

<400> 2491

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gaactaaata atgggagaag agctgcanta tcagcagaat ggttcatctg tgacatctaa 120

ttatggntat ggaagttcgc ttgcttacga tcaatctcaa gacattgaat ctgccgcaaa 180

cactgctctt ctccgagaac aagaaatata aacgcagaag attatacaag gtcaaagaga 240

actgggactt cagtatccgg agactctaag cataacactg atattcttcg agatcgtgct 300

gaccccaatg ctctaaagga acatttgcta aagttcactg cacatcatag agcanaagca 360

gcggcaaagc gtgggtggga gtgtgantac atgcagataa ggtaatgtgg atgttggaaa 420

cngttatggt ataacgggtg gaattgcata nccggg 456

<210> 2492
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-D5

<400> 2492

acgcgtccgc ggacgcgtgg gctcacanan acctcacctt tccaccataa cattgtttct 60

gttctanttc acacaagaac agaggacana agaaagaacg ggtctttggt cggaaagttc 120

gacnctttta gnancttcan atgttcnaat ctcgaaaaan atgcaacttt actctgcaat 180

tttccgagga catancanac ctaacgccgt cgtcngtgct gcctccatgt ttattcaaca 240

taagtccatc gnagcttcat cgganccccta aattgttgtt ganancttcn tctgtagtaa 300

ggtctcttca ttgccggagg tcaggtggat tggttacgca ttctcaagag gtcaagggtc 360

ttgtgtgtga nagcaactcg tggtgaggcn tcgtccatcg actcctggga tacattggag 420

agcagccnaa t 431

<210> 2493
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-D6

<400> 2493

acgcgtccga aaacatcana tcatgagtgg gcaagagaat catgatcatg gccggatctc 60

ttctacgccc gccgccgcgt cggagccttc caaggctgct gctcannnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncac 180

cggtgccgcc gcaaccanca tgccagcgga atccaatcct tacgtttctc cttcccctgc 240

cccaaggaat acgatggatt cggtgaagga tacgttaggg aaatgggggga aaatggctgc 300

cgacgccacc aagaangcng aggatctcgc cggaaatttt tggcagcact tgaaaacagg 360

cccaangtgt agcaaatgct gctgtttcac gaattgctca ngggacaaaa atacttgcan 420

aaggtggata cgaaaaaggc tttaagnaaa 450

<210> 2494
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-D7

<400> 2494

nnttcgagca angcganggt cgcanctgct tcaatcttcg cgatnatcga tagangntca 60

aagatagacc cgagcgatga gacanggaca gtgttggaga atgttanggg agatattgag 120

ctgcgtcant taagcnatac ttatccagca agaccanaca ttcanatctt tcgtgatctt 180

tgcttaccca ttcacgcagg aaagactgtt gctctggtag gagaaagcgg gtcggggaaa 240

tcaacggtga tcncgctgtt acanagattt tacgatccag attccggtca tataacttta 300

gatggagttg agctcaagaa gctgcagttg aaatggttga gacaacaaat gggactagtg 360

ggacaagaan ctgtcntgtt caacgacacg attcgagcca acattgctta tggcaaagga 420

agcgaanaag gcccc 435

<210> 2495
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-D9

<400> 2495

gggtgggtat cgatcntatc ncangaggta nnagtangaa gaccaaaagg actgctccta 60

agtccgatga tgtctaccta aagcttctcg tcaagcttta ccggtttttg gtgatgagat 120

ctaacagcaa cttcaatgct gtgattctga anangctttt catgaagcaa agtcaacaaa 180

gctcctcttt cactctctag gcttgtacag ttcatgactg gcaaggatga caagattgct 240

gtgttggttg gaactatcac tgatgatttg agagttcatg agattcctgc catgaangtt 300

actgccntga ngtttactga nagggctacg ggctacaatt gacaaagctg ngtgngagag 360

tgcttaacct ttgacnaacc ttgctctcaa anctccattg ngacagaaca cagttcctct 420

taaaagga 428

<210> 2496
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-E1

<400> 2496

acgcgtccgt aaaatcaaga aaccatgtct gcgagtgttc taagtgatcc aacaatgcta 60

atttcaacac cggaggtaat actcgtctct ccggtatcgg ttactcaaat ctccggagat 120

gagccagatt cggtgacgtg tgattgttgc ggattaaccg aggagtgtac ccaatcgtac 180

atagagatgg tcagagagcg ttacatgggg aaatggatct gtggactttg ttctgaagct 240

gtgaagtatg aagtcatgag aacgaaaaga ttgttaacga cagaggaagc tatggccaag 300

acacatgaac atgtgtaata agttcaaatc ctcaaagccc ancaccgaat ccgacaggac 360

atttgatcct gccatgagac aagatcttga gaaaaagctt agattcacca agaatgctan 420

atttaagcct aataatccat ctaaaggacg aacaaaga 458

<210> 2497
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-E11

<400> 2497

acgcgtccgg taaaaagaag aatcgccatt gagattgtcc caaaacctcc aaaggaaaca 60

cacgtttgtc tttgctctga ggtatcttcg acgggacgtt gaagcgagca agatacgaca 120

cgaaatcgat ctccccccttg cgttttccat ctccgtcgtc tgctgaaacc atttgatcga 180

tctctcagat aaggttctca ggatttaggt tgcttctatg agaaggacac gttgcagttg 240

gtgcttcatg tctaggtaat gaaggcttta tgtgatagat ttgttcctca acaatgttct 300

tcatcaagca agagtgatac gcatgataaa tccccttttag tttcagattc tggacctagt 360

gataataagt ccaagtttac cttatggtca aacgtgttta cgtcttcttc ctcagtttct 420

caaccgtata nggagtct 438

<210> 2498
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-040-Q1-E1-B8

<400> 2498

attcttcttt cttcttcttc tcagatcctt tcaccgagta agaagatttt aangatgccg 60

tcancgccga cnacgccgac tacaacaacg ccgatcacgg cttcgtattg gtgttacagc 120

tgtacgcgtt tcgtcagcgt ttgggctgat caaggcacaa caaccgtcgg tagcgtcgcn 180

tgccctcact gcgacggcgg ttttatcnaa cagatnaacg attcttcctc cgccgctacn 240

gaattnacga ttccggnttc nactgaagta acatcgatca ataacaaccg tagatccgtg 300

attagacgcc ggagatccgg tcgtcgtccg tcctttannc cggtcatcgt acttcaagga 360

tgcgcnggcn agaganaana nggacaanaa gganatgcng gctagagatt gaancgcctt 420

tgggttttag tacgaagcc 439

<210> 2499
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-F3

<400> 2499

cgcctgcctt taccgggccn aaaattcccg gaancnaccc acgcctccgg tgggcgtaag 60

tattgccatg ggcttttggc gactttggag cttaagagta gacacgatct gatctcaagg 120

ctattcaact ctgtcntgcc ttgtanagat gagattagtt ttgaggtgta natgaatgat 180

gaagccatgg atcacattgt gtttgctatg gcgaggaaga angcggctaa aacgatgcac 240

aaggagctga gggatctgca cagatttgng agggatggtt cccaagtcct ggcgggagga 300

agtgggtaac ggaggantta nctgtggtct ctgagtctaa ggaggtagct ggagatatga 360

tcaccgatgt tgtactttga tcaangtttt tggtgacaag tcttttgaaa agtttgggaa 420

gtatttcatc ctcaaatgcn tttctccggg atcanacatc ctgggcaaaa cac 473

<210> 2500
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-038-Q1-E1-G10

<400> 2500

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ccactcgact tctaagttta gttcatcaat ctcaattctg gattcaaatc atctagcttc 120

tcgttcgttc cagaaccggg aaacttcttg tgggatggat tcaaaaactg gatcctcctt 180

tgaaataggt agtgatagat tgcatcttcc aaatggattt tctgagaaag ctatgtccaa 240

tatggagcat tcattatttg ctaatgaagg cagaagcaac attcaagaat acagaggatg 300

atatcatttc aaacatttta gactttgatc cctgggatga atcgttgact tcgcaacaca 360

attttgcaaa attacttggt cagagtgatc atagggccag tactctggga atc 413

<210> 2501
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-G12

<400> 2501

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gatcaaatag gttatcgtca tgtttggcct gaatttgagt ttaattggca aattgtattg 120

ggaacacttg ttggattctt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnngattttc gtacctatgc ttagtttgat tattgggttt gatcctaaat cagctacagc 240

tatttcaaaa tgtatgatta tgggtgcttc tgtgtccact gtgtattaca atcttaggat 300

tgaggcatcc ancacttgac atgcctanca ttgattatga tctcgcttta cngatccagc 360

ctatgcttan gcttgggatt aagtattggg tgtng 395

<210> 2502
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-G9

<400> 2502

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agactgtgga ggagagatca ggctccggaa gatggcggcg gccgagagat ttaaagggtg 120

gcggcgatat cgaagggatt ccacaggttt tgggtcgttt ggtttcgaat ggttcaagta 180

agattgcatg tctttacaca cagcaaggca agaaagggac taaccaagac gccatgctcg 240

tctttgagaa cttttgttcg agagacgata cagtgttttg tggtgtattc gatggacatg 300

gaccatttgg tcatatggtt gccaagaaag tccgagatac attgcccttc acactcttaa 360

cccagttgaa aatgacctca gagtcagatn aaagcagctt antttggtgc caat 414

<210> 2503
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-038-Q1-E1-H11

<400> 2503

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aaaaaatctc aagttagcag agaattagac accgatggaa aaaagtttat cttcgccaaa 120

acatcgattc gggcttcact aaagccggtg aagacgaaac tcattaagcc tgagagagaa 180

tcagaagatg gaatttgtat cactcccacg gcgagaggag caaagactcc ggagtgtccg 240

gcggctccaa ggaaacgccc accggtgttg aaatgtcaga acaatattcg tatagagtac 300

tttgtgcctc cttcagattt cgagttggtg tttatacaac gccgttaatg taaaaagata 360

taaaaagagt ttctgagttt ggtttttaca aaaaaaaaaa aaaagggcgg gc 412

<210> 2504
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-H7

<400> 2504

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acatttgttg ctcatacgga caatgttaat ccagagaaac cgagttggga agctgattct 120

cgcttgcagt tacattcgaa taacgttgat gggttcaaga ttggttctca gcctgctact 180

gcgaagtatc ctgtttgcgc tgacgggtta agaaaagttt tgaaatacat caaagagaac 240

tacaatgacc cagaaatcat agtcactgga aacgggtaca aggagacact tgaagagaaa 300

gatgtacttc cagatgccct cagcgatagt aacaggaagt attatcatat gagacatctc 360

atggcattac atggancagt ctgcgaggac aaggttnatg 400

<210> 2505
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-A3

<400> 2505

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cgcgtccgaa tctgaataca ctcattgcaa accttnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnncttcca tagattccgt tgggctttta ctgtgtttga ttgatcggat cgattgcgat 180

tacggagaan atatggctca ggctgtagaa gaatggtata aacagatgcc gattatcact 240

cgctcttatc tcacggcggc tgttatcacc accgtcggat gttccctcga tatcatatct 300

ccatataacc tttatttgaa tccgacactt gtggtgaagc aataccaata ttggcgtctc 360

gttactaatt tcttgtattt ccggaagatg gatttggact tcatgttcca tatgttcttt 420

ctcgcacgat actgcaaact ccttgaagaa aactcattca ggggaaagac tgctgaattc 480

ctaaacatgn ccccaattgg 500

<210> 2506
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-A6

<400> 2506

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tcatggaggc aaagacaaga catcctcttc accagatcgc agatacacca acacacaagc 120

ttctcctgaa acaatggtta aaagaagaag agctaattct aagccgtgtc nctcacaaag 180

aatctcagat cgattctgtt cgaatgagaa atcactcagc tctacatcnt cntcnttctc 240

ttccactcca tttcnctgct acttctcttc cacgcttctt catcctcatc ttcctctgct 300

tcttccagtg cttgtaaaag atcatggatc ccttcactct gccgctctgc tatctnnctt 360

ggggatcagt tggggcggta cgggacaaat ccgatgtgga acgcaanctt 410

<210> 2507
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-B1

<400> 2507

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ggaaatggag ttgcggatcc gaagtttgat ggaaatgctt ttgtcccgtt tgcacatggg 120

atgggactaa tctctgatga actctttgag aacgttacaa aagcttgcaa gggaaatttc 180

tatgaaatag agggactcga gtgcgaggaa cagtatacga aagttaacga tgatactaac 240

caagttgaat atatacaaca ttcttgagcc atgttaccac ggaacatcgc tatctgcatt 300

cgacattaga tcgcttcctt caagtctcct tcagctaggc aaaactgaaa aacggttacc 360

tataagaaaa agaatgtttg gtcgancgtg gcaattcgtg cgcctgttca nccaagcant 420

gtccctaacc tggtccaact tcntgccgaa gt 452

<210> 2508
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-B5

<400> 2508

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cttctgaaat ttccgtcaag aaagttggta ctcataatgg aagctttcac tgcgacgaag 120

ctctcggctg tttcatgatt cgcctcgtcg ataaattctc cggcgctgat atcgtccgtt 180

ctcgtgaccc taagatattg gcagaacttg atgcagtgct tgatgttgga ggtgtttatg 240

atccggagca tgaccgttat gatcatcacc agaaaggttt tgaagaggtt tttggacatg 300

gcttcaacac taaagctcag tagtgctggt cctgttacaa gcattttgga aaggagatca 360

tagctaagga acttaatgtc gaacaagatn accctgatgt tctccgggtt gtttttaacc 420

ggctacaana acctcaaggg aggcaaattg a 451

<210> 2509
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-B6

<400> 2509

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cgcttgtcgc aacagaaaac agcaaggtta ataaaatatg ggaaaaattg gaaggttaca 120

agaagaagct tgcgcgagca gaagcaatat tagcagcaac taataaccgt cccacgaaca 180

aaaccggctt ctgtgggcta gtcggtaaac aagtagacag cattgagtat tacactgagc 240

taatcaacga gtctgtagcc aaactggaaa cagagcagaa agcggttctt gctgagaagc 300

agcaaaccgc agcagtggtt ttcttcacaa ccagggttgc tgctgcatca gcaagctcaa 360

tctctgcact gccagatggt tgataaatgg actgtgaccg aagctcctga ancaacggga 420

antcccaatg gaagatccca acnatcaagc cct 453

<210> 2510
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-B9

<400> 2510

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aagtgagaca aggttaagga ggaagaagat gactgagaat cgggtggttt tggctctgct 120

tatactctgc attgttgggt ttgagccaag tttcatccat ggagctacgg attcatcaga 180

tacttcggcg ttaaacatca tgttcagctc catgaattct ccaggacagc tctcacaatg 240

gacagcatca ggaggtgatc cttgtggcca aaactggaaa ggcataactt gctctggctc 300

tcgagttaca caaataaagt taccaagtct tggactttct ggatcacttg gattcatgct 360

tgataaattg acttctgtta ctgagtttga tatgagcaac aataaccttg gaggcgattt 420

gccttatcag cttcctccaa actttggagc cgattgaatc ctgctaaaaa 470

<210> 2511
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-039-Q1-E1-C1

<400> 2511

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aggaaagctg gagtactagt tgggactgga atgggaggtt taactgtgtt ttcagaaggt 120

gttcagaatt tgattgagaa gggtcatagg aggattagtc catttttat accttatgct 180

ataacaaata tgggttctgc tttgttggcg attgatcttg gtcttatggg tcctaactat 240

tcnatttcaa ctgcttgtgc tacttcnaat tactgctttt acgctgctgc gaatcacatt 300

cgtcgtggtg aanctgatat gatgattgct ggtgggactg angctgctat tattcctatt 360

gggttgggag gttttgttgc ntgtagggca ttgtcccaga gaaatgatga ccctcaaact 420

gcttccangc cgttggataa agcangaaat gngtttgtta atgggttaaa gaactggggg 480

ttctggtgaa tgggaancct g 501

<210> 2512
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-039-Q1-E1-C10

<400> 2512

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tcctcggact tgagaagaaa caaaccaaca acgctcctaa gcctaagttc cagaaatttc 180

tcgatcgccg tcgtagtttc cgagatattc aaggtgcgat ttcgaaaatc gatccggaga 240

ttatcaaatc gctgttagct tccactggaa acaattccga ttcatcggct aaatctcgtt 300

cggttccgtc tactccgagg gaagatcagc ctcaagatcc cgatttctcc ggtccacgcg 360

tctctcgcca ggtctaagta ccgaactcgt ttcgggaact gttcctaaga cgat 414

<210> 2513
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-F12

<400> 2513

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aattcgtagc agagtgtgaa aatggaagga agcaaaagcg aggcagtgtt cgattccatg 120

aatctaaatc ctcagatttt catcaacgaa gcaatcaact ccgtcgaaga ttatgtcgac 180

caagcttttg acttctatgc ccgtgatgca tccaaatctc tcaaaatcaa aggatctgat 240

aaacaaaagt cacaagcttt atcaaatggt attgctcgtg ttcgtggttt gctactatct 300

gtaatcgaca atcgtttgaa attgtgggaa agctattctc ttcgattctg tttcgcagtt 360

cctgatggat ttgtgttacc aaagagtgag gagtcttcgn ctgtgg 406

<210> 2514
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-C2

<400> 2514

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ggaaaaagca gtaatcaaga tgcagaagct caacgacatc ttctccggtg gaggagacgg 120

cgacggaaca accgatagtt tccttgaaga tggatcggag ggtctctgtg ctctctccac 180

cacccagaga atgtacggat tcgccgcgtc tttagccact ggnctgctac ttatgttcct 240

gtcnatgatt gtatttggga tccccatcaa atttgcactg ctcttcacat ttggaaatgt 300

tctagctatt ggaaagcaca ngctttcctc acggggacct gagcaacaga tgactatgat 360

gtttgaccct gttcgtttct tagctanatc catttatntc ggatgtgtcn ttgttgcnnt 420

canntgcgct cncngattca gagcaaaatn cgtacg 456

<210> 2515
<211> 439

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-C4

<400> 2515

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nnnagttatt tcgctttagc agattactta aatccacggt ttcttcttct ccgggagcat 120

ttatggcgtc agcggtgacg gcgtcaggca aggtggagaa aggacatcag ctatatagag 180

acggcaagta taaggaggcg cttctcttct atacggaggc tcttactgct gctaaagcta 240

aaccacagaa gatcgctctt cacagcaacc gcgccgcttg ttacttgaaa ttgcacgatt 300

tcattaaggc agcagaagaa tgcacttgtg ttcttgagct tgatcagaaa catagcggag 360

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atgtcaccan gcttaagga 439

<210> 2516
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-C5

<400> 2516

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ctacatccga tcgtcgccgg tgacatttta taagtgtgga gtttacttca gctttattat 120

tcaggaattg atggatcagt acgangaaag ttgagaagat tggtgaagga acttacggtg 180

tggtttataa cgcacgtgac anngtgacta atgagacaat tgctttgaag angatcaggc 240

nagagcagga ggatgaaggt gttccnagca canncatcag gaganatcct cccncttgaa 300

agaaaatgca cgcacagcan cattgtcaaa ttgcaggatg tggtngcaca ccgaggaaac 360

gtttggaanc tgggttttga gtanccttga cntggatctc aaaanggcac atgg 414

<210> 2517
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-C6

<400> 2517

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caatctctag aaaatggcga tcacttactt gcttcctctg tttctttctc ttatcatcac 120

ctcctctgtt tcagctaatt tccaaagaga cgttgagatc acttggggtg atggtcgtgg 180

acagatcaag aacaatggag agcttctcac tttatctcta gataaatcct ctggttctgg 240

attccaatcc aaaaacgagt acttgtttgg taaagtctcc atgcaaatga agcttgtccc 300

tggaaactcc gcaggaacag tcacaacact ttacttgaaa tcacctggaa caacatggga 360

cgagatagat ttcgagtttt tagggaattc aantgggaga accttacaca cttcacacaa 420

atgtctacac acaaggcaaa gggagacana gaacaacnnt tcanactccg ggttgattcc 480

aac 483

<210> 2518
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-038-Q1-E1-C8

<400> 2518

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gtccgctgta acattaccaa aacgaaacct tccttgtgga ttcccacttc tttcttctgt 120

tttcttcttc ctcttcttta aattggatgt tttgggcaag aaacagagag aaacacgtta 180

atttgagagt ttgtcattga atatttggtt tgcaatggaa agagattttc tgggtttgag 240

cgacaagcag tatctaagta ataacgttaa gcatgaggtt aacgatgatg ctgtcgaaga 300

acgagggtta agtacgaagg cagctagaga atgggggaag tcaaaggttt ttgctacttc 360

aagtttcatg ccttcttcag atttccagga ggctaaggcg tttccgggtg cataccagtg 420

gggatcagtt tctgcggcca atgttttccg cagatgccaa tttggtggtg cgtttcaaaa 480

cgcgacgccg c 491

<210> 2519

<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-D10

<400> 2519

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caattgagct agttgatgtt aaggttcgtt aagctgagaa tcttccaaca gtactccatg 120

gggtgagctg tgtgtttccg ggtggnaaaa agattgggat tgttgggcga acgggaagcg 180

gaaagtcgac tttgattcaa gctttgtttc gattgattga tccaactgct ggaaaaatta 240

ctattgacaa catttgacat ttctcaaatt ggtcttcatg atcttcgtag tcgccttggc 300

gattatacct caagatccta cattatttgn aggaacaanc cgagcaaatc ttgacccacg 360

tgaagnncat tcatatgatc aaaatcnggg agngcgcttg ataagatccc cacgctt 417

<210> 2520
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-D2

<400> 2520

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tccaaatttg cctaaagatt ttacatttta tcttcaatcc ttccttgatt tacgtttgaa 120

atatttcgac ccaaaactat actgatggag agaacaaaca gcattgagat ggatcgagag 180

agattaacgg cggagatggc gtttcgagat tcatcatcgg ccgttataag aattcgaaga 240

cgtttgccgg atttattaac gtccgttaag ctcaaatacg tgaagcttgg acttcacaac 300

tcttgcaacg tgaccaccat tctcttcttc ttaattattc ttcctttaac cggaaccgtg 360

ctggttcagc taaccggtct aacgttcgat acgttctctg agctttggtc taaccaggcg 420

gttcaactcg acacgggnga cgagacttaa ctg 453

<210> 2521
<211> 455
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-D6

<400> 2521

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atcaatttta ggtcttttga ttcctacttg tctaatcgta atccaatttc tgggtcaact 180

ttcgatcaaa atcaactggg cttgaatcaa ttttaggttt ttcgattcct acttgtctaa 240

tcagttgaat caaagttcgt ctcttttaag cttgcanttt caaagatgac agttgttgga 300

gatgttgctc canntcgaag gaggaacagt tcctacgtgc tctaatgata tcgnctgctc 360

cggnannacc aagaggtgtc atggacgann aagttgctca tgangaattc aatggagctt 420

ccttttagtg gcgcggtttt taagcntcgc caagg 455

<210> 2522
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-D7

<400> 2522

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tagcggaaag agcaacgcga aatacacgcc agatgacgaa tgttgtgttg gccttctcga 120

ttggttttca atttcaggca tttgtgttgc aaaagaaagg ggatatcgcg gaaattctgg 180

atccgaggct ggaaggaatg ttcgatgtga tggaggcaga gagaatgata aaggtttcac 240

ttttatgcgc caacaagtct tcgacattac ggccaaacat gtcgcaagtt gtgaagatgc 300

ttgaagggga gactgagata gaacagatca tatcagaccc tggagtgtat agtgataact 360

tgcacttcaa gccatcgtct ttgtcgtctg attatatctt gtcnattcct tcatcatctg 420

aatctgctta ngatctgtac caccca 446

<210> 2523
<211> 409
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-E12

<400> 2523

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ggaccgacca gcaccttcct gatggcagag tcatcgctgg gaataatggt agttatgata 120

aatgccgacg taggtttgat ctgggagatg cagaatatct tagataccat ggactacaag 180

agtttgatcg agcaatgcaa aatctagagg agacgtatgg tttcatgact tcagagcacc 240

angtacatat cccgcaagga tgaaggagac agagtcattg tattcgagag aggtaacttg 300

ctcttcgtct tcaacttcca ctggaccaac agttactctg acnaccgtat cggttgctct 360

gttcccggaa agtacaaaat cnntttggac tccgataact cttanttgg 409

<210> 2524
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-E2

<400> 2524

acgcgtccgg aaaaaggttg gagctttatc atcatcagct tcgaaaccac cacctgcgcc 60

ggttagagga gcaagtggag gagagacttc gaaacaagta aagttgaagc ctttacattg 120

ggataaagta aaccctgatt ccgatcattc aatggtttgg gacaaaatcg atcgtggatc 180

attcagtttc gatggcgatt taatggaagc tctgtttgga tacgttgccg tggggaagaa 240

atcaccagaa caaggcgatg agaaaaaccc taaatcaacg caaatattca tacttgatcc 300

gagaaagtct caaaacacag cgattgtgct caaatcatta ggtatgacac gtgaagagct 360

tgttgaatca ctcatagaag gaaacgattt cgtgccagac actcttgaga ggttagctag 420

aatagctcca acgaaagaag aacnatcc 448

<210> 2525
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-E6

<400> 2525

ggnagtgttt accctgccgg taccggtcca aaattcccgg gtcgacccac gcgtccgccc 60

acgcgtccgg attcntcttc tctaccatat tcgttgaaac caganaagat ggtgggtgtg 120

tcgccgaaga tcgctccgtc gatgttgtca tcggactttg caaatcttgc cgcggaggct 180

aagcggatga tcgatttggg cgccaattgg nttcanatgg acattatgga cgggcatttt 240

gtttctaacc taacgattgg tgctcctgtc atcgaagagt ttgaggganca cacaagatca 300

taaccttgat ggcaactnan tggtggacga aacccaatgg gaataangtg gattaagaat 360

gggctaaaag ctgggagcct nctggtttca acattccaac gttggagggt ggcccaaaga 420

nnaattggca agaacttgtg gagaaggatt aaaggtgctg gggaatgaag gcaaagtngt 480

gggtcntaaa ggctggaaan acctgttgna caagtccaaa 520

<210> 2526
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-E7

<400> 2526

nagtgttacg cctgccggta ccggtccaaa attcccgggt cgacccacgc gtccggcaag 60

acgcttcact caagcagcag taactaaact tgcctccaaa aaccaatccc agatctgaat 120

ctcaacctaa acctcagatt catcatcatg gcttcttctt ctaactacga tggaatcctt 180

ctcggtatgg gtaacccact cctcgatatc tctgccgtcg tcgacgacga atttctcacc 240

aaatacgaca tcaagttgaa caatgcgatt ctcgcggaag acaaacattt gcccatgtat 300

gatgagatga gtagcaagtt caatgttgaa tacattgccg gaggtgctac tcagaactca 360

atcaaagtgg ctcagtggat gcttcaaatt cctggggcaa ccagttacat gggatccatt 420

ggaaaggaca aatatggaga ggccatgaag aaggatgcta cagcagctgg tgttaatgtt 480

cacnattat 489

<210> 2527

<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-E8

<400> 2527

ggggtaacac agacccttt tccctcttac tcaaggttct tctttgtcat cttgttgccg 60

aatccacaaa gaggagaata aagattcgac ctttattaga tattaacgac tctggatttt 120

tgggtttttg gagttggatc cacatgggtt cttatccgga tggattccct gnatccatgg 180

acgagttgga tttcaataan gactttgatt tgcctccctc ctcaaaccaa accttaggtt 240

tatgctaatg ggttctattt agatgactta natttctcat ccttggatcc tccagaggca 300

tatccctcnc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nagctgtngc agganatctg 360

tnatcatctt catctgatga cgctggattt ctctgattcc tgttttgna 409

<210> 2528
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-B7

<400> 2528

aggcatccca atggaagagt attctccggt aatggactac ggatgctgca ttcaagcttg 60

gtgagcctgg tacttgtctg ttgtttcctt aggcatccca atggaagagt attctccggt 120

aatggactac ggaagacatc atcatcctcc tgcaacatct gcagctctca tggagctaac 180

cactcgtctg gatttcttca aggaacgacg gtcacaactt atggaacaga ttcagaatct 240

tgacctcaac tatggttcct cttcttcttc tctgcaccga tcctcttctc caccatggga 300

attaggctct ttgagaaagc tcttgtccaa aaaaatagaa aaatgtaaaa gaaagtctcg 360

tctgtgcaga ctcttcatgc ttgtaaaacc ggttcaaggt taaaccaact atatatttac 420

cacgaaaatt gatggngaaa 440

<210> 2529
<211> 493
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-G3

<400> 2529

ngccggttcg ggtcgcaaat tccggggtaa acccanccgt ccgcttcgtn ggaaataatt 60

tncnctttcc cttcnantat tatcttannng tgagaaatca ntancgatgt tgganaaaga 120

gtttttcacg gagtatggtg aagcaagtca atatcagatc caagaagttg ttggcaaagg 180

aagctacgga gttgttgctt ctgcggaatg tccacacacg ggaggcaaag tagccatcaa 240

gaagatggac aaatgtgttt gaacatgtct cagatgctat tcgtatcctc agagagatca 300

agcttctcag gcttcttcga catcctgata tcgtggagat caagcatatc atgcntcctc 360

cttgtcgcaa ngaattcana gatatanatg ttgtttttga gttgatggag tctgatcttc 420

accannttct taaggtaaat gacgacctca ctccncagca tcatcaagtc nnccttgtac 480

caacttcctc ggg 493

<210> 2530
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-G4

<400> 2530

tttagcctgc cgtttcggtc cganaattcc cggggtcaan ccacgcgtcc gaaagagtct 60

anagagacng nnagtgagga gaagaganaa agnatttcga gacaaatggg ccgccgccgc 120

tgctcgtcct ctccgtcanc atccanacct tgggatggtg acatgtctac cgatnaatcc 180

tccaancgtc gtanttctcg acgtcatgac ggcgccagtt cgaccagaca tcgttaactt 240

cgttcacgcc caaatctcca acaacaagnc gtcagccata cgccgtatcg aagaangccg 300

gtcaccanac ctccgccgag tcctggggga accggacgtg ccgttgtctc gtatncctcg 360

tgttcccggt ggtggtactc accgtgctgg tcaagctgcg ttcggtaaca tgtgtcgtgg 420

tggtccgnat gttcnctcca accaanattc tgggcgccgc tgggnacngt cgtgtcaatg 480

tcaacaatga aagcgtcang ca 502

<210> 2531
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-G5

<400> 2531

acgcgtccgg ctgttcggag tcagggttgt gcttgacccg atgagaaagt gcgtgagttt 60

gaacaatctg tctgactatg aacagacggc ggagactcca aagatcgacg gcgaagatag 120

agatgaacaa gatatgaaca aaaccccggc cggttacgcc tcggcggatg aagctcttcc 180

catgtcttct tctaacggca aaatcgagag gaaacgagga gttccatgga ctgaagaaga 240

acacaagctg ttcttgcttg ggctgcagag agtcggtaaa ggagattgga aaggaatatc 300

aagaaacttt gtcaagacca agaacctcta cacaagttgc nantcatgct cagaaatact 360

tcctcaggcg aagtnatctt aaccgtcgcc ggccgaaaga tctagccttt ttgacatgac 420

tactgatacg ggtcataccc aatng 445

<210> 2532
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-G6

<400> 2532

ggcccctgtt tacgcctgcc ggtaccggtc caaaattcnc gggtcgaccc acgcgtccgg 60

cttattcgat tttcttcaga tttgaaatgg tgtcgttcaa ggtctctctc gtctctactt 120

cgcctattga tggccagaaa cctgggactt ctggactccg taagaaggtg aaagtgttta 180

agcaaccaaa ttaccttgaa aattttgtcc aggcaacgtt caatgctctt actacagaga 240

aagttaaagg tgcgacactt gtggtttctg gtgatggtcc gttattattc agagcaagct 300

attcagatta tagtaaagat ggcagcagct aatggtgtta gacgtgtgtg ggttggtcaa 360

aacagtctgc tatcaactcc tgcagtatca cctattattc gtgaaagagt acgggctgat 420

ggatctanan gccacaggag catttanctt aanagcaggt cataatcctg ngtggcccaa 480

antgaggatt tccgga 496

<210> 2533
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-G9

<400> 2533

gaagaagaat aaaagacaag gcttgaacgt ccggtgaaag aaagaattca gctttccgca 60

ctaaccactt ctgaatccta accaacaagc ttctccattt cgtttttcgc gtctcgattc 120

caaattccac ttaagacggc ggattttctc accgggaaat tggttttaga tggataggac 180

tgaggaaatc gaagaatccc ccgccggacc ttcttccgga tccgcgaaat tgaagctcgg 240

aaacagagca gatcctttcc ttgttgtttg tagatgcttc aagcctcgtt acctctctca 300

tcgccattct ctgtgttgtc cgttaacgtt ctcgctgccg ttcgctcctt ccgtgacagc 360

cacgatctct tcgatggaat attccggtgt tatgctgtgg gggattgnct ggttttggtg 420

gtcc 424

<210> 2534
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-H10

<400> 2534

accctgccag gtattggtcc ggccattcnc gggtcaaccc acgcgtccgc ggacgcgtgg 60

gctaatacga agaagcatgt ctcagcgaag ggtaaagaag cttcgttaga agttcactct 120

tctagtccag gcaaatcaaa ctcgtcatct tctggttccg aggcgaagaa accaattact 180

gaaacgccgg cgacttctga cgtgaaggag gaatcgccgg cgtcggtttc gcctatcatg 240

gcttcatctt tgggtttgaa tagaatcaag acgaggtctg gcccgttgcc gcaggaaagt 300

tttttcagtt ttgagaatga ttatgcaatt ccggtcttac cgtgttacaa gttgtcgaag 360

ttggatactg gcaagaagga agctggaagc agcaaggtag atattgggac cgctaagaag 420

cagcaatccc gcgttgctgg gcttcgggaa ctgggtcnaa tcaaggtatc acct 474

<210> 2535
<211> 493
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-H2

<400> 2535

accctgccng ttaggtcgca aattcccggg tnaacccacg cgtccgtaag aacattgaag 60

cttgcaagga gctctccacc attactcgca cctctctcgg tcccaatgga atgaataaaa 120

tggttatcaa tcatttggac aaactgtttg tcacaaatga cgctgctact atagtgaatg 180

agctcgagat tcagcacccg gctgctaaac ttctggtttt agctgctaag gctcagcaag 240

aagaaatcgg agatggagct aatctgacaa tctcctttgc tggtgaactt cttcaaaacg 300

ctgaggagct tatcaggatg ggacttcatc cgagtgagat cattagtgga tatactaaag 360

ctgtcagcaa ggctgttgaa natactggaa caactggntg agactggttc tgagaccatg 420

gatgtacngn acangggatg aagttatttc tccggatgac agcagctgtt gcaaggcagg 480

cantttgggc aag 493

<210> 2536
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-H5

<400> 2536

acgcgtccgg aaaggtctga atattccaac tctagcactg taagttcgga aggcagtgtt 60

caagatctaa gtcagaagat tagtcaatcg gatgaagcat cttcaaacca tcaggaaacg 120

ggtctggtga agctctacag tgttggtgaa agttgcaacg agaacattcc ggaatgtagt 180

tcatttttcc ttccaaaagc tgccattgga tttatcacaa accttgcatc aagccttttt 240

ggttatcagg gttccacttc ggttataagt tcacattcac gttgcaatga ttctgaagat 300

caaagtgact ctgaggtcct tgttcaagaa acangcagaa tcatatgaca actctgaaac 360

aaattcaggt gaagtgggat atgaccacca ngatggtcan catacctata gaaggaaaag 420

gaattaacaa gacactggnt tcaactc 447

<210> 2537
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-A11

<400> 2537

acgcgtccgc tttggttttt cttcactgac aaaaccccta aaaatggccg actcattcga 60

gctaattgta acccgaaaag aacctgttct cgtctctcca gcctccgaaa ctccaaaagg 120

tctccattat ctctcaaatc tcgatcaaaa catcgccatc attgtcaaaa cattctacta 180

cttcaaatca aactcaagat ccaacgaaga atcctatgaa gtcatcaaga agtcactctc 240

cgaggttctc gttcactact atcctgccgc agggagactc acgatcagtc ctgaaggaaa 300

gatcgctgtg gattgcaccg gagaaggagt tgtaagtggt ggaagctgag gccaattgtg 360

ggatagagaa gatanagaan gntatntcgg gagattgatc aggggagagg ctcggtgaaa 420

aggtgggttt gg 432

<210> 2538
<211> 359
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-A12

<400> 2538

tcccacgctc tctcctcttc ctcggatctt ccatcttctc tctaacagca aatgactcag 60

tcgtaacctt ctacactttc tctctctcca atttttcaca ttttatttt ggcttccgag 120

ctatgacccc agtgcgtctg cttcgtctcg accgctgatc ggaataaaac cancgccgag 180

tttcctaggt ctatgtgtat tgtaatatcc tccggaaatg gcagctttcc tcgtcatgtt 240

tatcttcacg atngctctgt tcngtcgcac tccnttgggt tttcttcaag tctctccctt 300

gggattctcn ggcatagtgn tggaataant ctcagttttc agtttgntgg atggaactg 359

<210> 2539
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-A8

<400> 2539

tacgcctgcc cggnaaccgg tccanaaatt cccgggtcga cccacgcgtc cggttttttc 60

ttgcattttc cccagaattc cttcacattc tctccttttc ctctttttaa ttcctcacca 120

cctcaaattc ttcataaaca aatccacttc tgcatggttg ggagaatctg ttagagaatt 180

tttgttgttg ttgggttcag atttggaaaa tttccttttt ttcgagtttc ttctgaatta 240

ttcatcgtgg agattctcgg atcgggaagg gctgcgagag gtggttttca cggcggggat 300

agattcatct tctgtcttct cctgaggggg tagccgaggc tccggcctcg gcggttttta 360

aacccctacc tttacaaatt ctgggaaatt agaaaaaaaa aggtttgatt tttcagtttt 420

tgctctgttc ttctctcgaa agtttttgtt ttgttcgaga atttctggta aagtganatt 480

gttgatcg 488

<210> 2540
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-B4

<400> 2540

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tcgtttttca ggagtttctt tctatatttc ttcatcgatt tcgttcagtc tttgagagag 120

gttcgtcgac gtattatcgt cggaaaaaag ctatgagaat ctatttctca tagctccagt 180

aatgtgaaat cgagacaacg ctttatcttc agaatctgct aatccatggg agattcaatc 240

acattccggt agatttttt ccagtttctg gggaagtcaa aaatttccag ggtttccgat 300

ttttgttttc cttttccaaa tgttctcgaa tcagtttgtt ctcttcttcn ctcttctcct 360

atgtctccca tttgttttct tctttgtagc gccacatgtg tttccttctc ctcctgggtg 420

aatctttaat cccaatctcc gatgagattg atgaccggga gtttattcat cgncgctgcc 480

tg 482

<210> 2541
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-038-Q1-E1-B6

<400> 2541

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gtatgggcaa cttctaagca cgacgtgtat cttatgtcaa attttctggt tacacattat 120

tcttcnctan cgtcnggaaa gcatgaagtt ctcantgtcc gtggtcatgt tgcgccatct 180

gatgaaacat cctggaagtt nacttgangg atttacgcag actcaagtaa gtacacttgc 240

agtaaaagat gactttctgg ttgctggcgg gtttcaagga gaacttattt gcaagcatct 300

tgatagaccg ggtgtcagct tttgctctcg tatgacttat gatgataatg ctataaccaa 360

tgctattgag atctacaaca nacccagtgg tgcacttcat tttactgcgt caaataatga 420

ctgtggagtt agagactttg acatgggaga agataccagc ttgttaagca tttccgtttt 480

ccttgggcag tg 492

<210> 2542
<211> 573
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-037-Q1-E1-G2

<400> 2542

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gagcttccaa tcctcctcaa atcttccttc nnacganttt ttcctcctaa ggtttaagag 120

cttttgattc ccccgattaa atttccgccg aatttgttgn ancnanggat ctngaaanta 180

ngaatgggtg gtgaaagcaa gattcgangg cagccggctg actggctgaa aggcgtancc 240

tggttgcccg tngaacggtc angattgctc caantggcaa cgaaatttaa gtgtgaacga 300

cgaacctcng attccacggt gggangtcct tcaaangagt taattgcgnc agaaacaacg 360

atgtgccngg caaatcagcn agcgtttgat tacaaaggga cgtaatcctc aaaagacgaa 420

tnagactcct cctcaagcct aagggtttgc aagggctgat taacaccgtt caatatgggt 480

ccgaggtttt tgtngccttc cttcgccntt ctgctncccg cctggcaaaa tgctgggaaa 540

accaaaacca antggcgccc tcaaagcggg ttg 573

<210> 2543
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-E7

<400> 2543

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cttcttatct tgtttggatt tttcatttct tctgtttgat tttattccac aaacacaata 120

aaaaagtttg catttttcc tcttctaagc tcgtttcaga tcttcgattt caccatttt 180

ataaactatt atgcgaactt agttttgttc tttgtgattt tgtatgacaa tgatcttctt 240

ctctaagctt aatcgctcca tttctcgttc aaagggattt ttgtacggtg gtggtgttag 300

atcggcggca aggctactta cttcgccggg acttgaggcg gcgtctgtga atgaagtgga 360

aggtggatta ggggtttata angaagacac tttgcctcct taacttcacg gaaaggttta 420

agcaataaag gattggatgg gg 442

<210> 2544
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-035-Q1-E1-E9

<400> 2544

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ctttcatttg ggttaagaga agccatggat accgagtttc tccgaaccct agatcgtcag 180

attcttttgg gtgtcttcgt tgctttcgtc gccgttggtg ctggtgctgc ttatttttctt 240

acatcctcca agaaacgcag agtgtgtttg gatccaagag aatttcaagg agttcaagct 300

tgttaagaga catcaagctt agtcacaatg tggccaagtt cgtttttgaa ctcccaactt 360

ctacttctgt gttgggtctt cccattggac aacacatcag ttgcaagggg aaaggatggg 420

<210> 2545
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-F11

<400> 2545

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gcttctcact caaaccactt cgctccttcg catcnatgtc ttcttcntcc cccgacgctg 120

ctcagactcc tctaaccacc gctccttatg gctcctggaa atctccaatc accgccgaca 180

tcgtttccgg agcttcaaag cgtcttggcg gcaccgccgt cgattctcat ggccgtctcg 240

tcttgctcga gtcncgccct aacgaatccg ggagaggagt tttggtgcta caaggagaaa 300

natcaattga tattactcca aaagacttcg ctgtgagaac tttaacacaa ggaatacggt 360

ggtgggtgct ttccagattt catcaagatg atacacttgt gttctctant tacaagggat 420

tag 423

<210> 2546
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-F2

<400> 2546

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ttgcatcngt tgcatacaac agccttttcc ttggagagtt catgcaacct gactgggata 120

tgttccatan tctacaccca actgcagagt accatgctgc agcgcgtgca gtgggtggat 180

gcgcaatcta tgtcagtgat aagccaggca accacaactt tgatctattg aggaagctgg 240

ttcttcctga tggctcagtt cttcgggcta agctcccggg tangcctacc cgtgactgct 300

tattcgctga tccagctaga agatggaatc agcttgctca agatctggga acatgaataa 360

gtttactggg tattgttggc ggtantcaan tgtcaaggtg ctggttggtg caangaaacn 420

ataataacaa gattcatgat acnt 444

<210> 2547
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-F3

<400> 2547

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atctgtacgg taacattgtg ctcagtggtg gaaccactat gttctcaggt atcgctgacc 120

gtatgagcaa ngaaancaca gcacttgcac caagcagcat gaanattaag gtcgttgcac 180

cacctgaaag gaagtacagt gtctggatcn gtggttccan tcttgcttcc ctcagcacat 240

tccancagat gtggatcncc aaggccgagt atgatgaggc aggtccanna ancnttcaca 300

naaaatgttt ctaagctctc aagatcaaag gcttaaaaag ctggggtttt atgaatggga 360

tcaaagtttc ttttttttct tttatattgt gcttctccat ttgtntgttt catttccccn 420

ttntgttttc cnttccaatg angcacntgt ggtttgacaa actcctccgg gtttttacnt 480

acctccgcct ttccaaaa 498

<210> 2548
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-F4

<400> 2548

cgtagcctcc aaaattccaa ggtcgaccca cncgtccggc tctcgagaga cgaannnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aagatcacac 120

tacctcgcac aacaatggag ttctggggtg ttgangttaa gaatggcaaa ccacttcacc 180

tagatcctgg gctagacagg ctcgtgcaca tctctcaggt tgctttggga gagagtaaga 240

acaatgtanc cganccaatc cagctttacg tgactgttgg atcggataag cttctcattg 300

gaacgctatc tcatgagaag tttcctcaag ctgtctacgg agattgtctt ggaaaggaac 360

tttgcgcngt ctcatacttg gaaagaatgg gaacgttttc ctctctggtt acaanagttg 420

gatggcatct gattcccgaa gcctgaagga tttgattgat gattaacttn aggctgctg 479

<210> 2549
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-F5

<400> 2549

acgcgtccgc ctcaacaacc atcttcttcg ttatattcct tgagataaca acaaagcatc 60

gttcttcacc tttaccnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnttta 120

taggatcaat cgatcaagga accaccagca ccagattcat catttacgac cacgatgctc 180

gtcctgttgc ttctcatcaa gtcgagttca ctcagttcta tcccgaagct ggatgggtgg 240

aacacgatcc aatggagata ctggaaagtg tggaaagtgt gcattgcaaa ggctctcgac 300

aaagccactg ccgatggaca caacgtcgac ggtggcttga aggccattgg gcttacagat 360

cagagagata ctactgttgt ttgggagcaa atccactggg cttcctctcc aaaan 415

<210> 2550
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-F6

<400> 2550

gttcgctagt ccttgtgtta ttggtcatga gattactggt gaanttgttg aacatggtcc 60

acttactgat cacaagatca ttaatagatt tccaatcggg tctcgtgtag ttggagcttt 120

cattatgcct tgtggaacct gttcttattg tgctaagggc catgatgatc tatgtgaana 180

cttctttgct tacaacagan ccaagggaac tctttacgat ggcgaaactc gtctcttttt 240

gcgacatgat gattcaccag tgtatatgta tagtatggga gggatggctg antactgtgt 300

tacaccagct catggtttan ctcctctacc aaagtccttg ccctactctg aatctgccat 360

tctgggattt gctgttttta caagcatatg gtgctatggc tcatgctgct gaagatccgt 420

cctggagatt cattg 435

<210> 2551
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-F7

<400> 2551

attcccgggt cnacccacgc gtccgcanga tcagaatggg atttctgttt ttatcaaggc 60

agtgtggtcg aacatcttga tggtcacact gatataatcc acaaacagct atacagcnat 120

tggttacctt gggggatgan gagaanagat ttttcgctac ggcgttactg gagaagggaa 180

gacgatggca catatgttat tctctatcat nctgtatttc acangaagtg tccacctcaa 240

gaaaggctat gtccgtgcgt gccttaaaac tggcggttat gtgatttcnc ccataggaca 300

aacgganaac aatcanttgt gaancacatg cntgctgttg attggaagtc ctggagatct 360

tatgtgaanc cntccttacc tagatctatt accgtgaaaa tgccntggaa caanttctgc 420

cctgatacaa cgttttaagg gcanaaca 448

<210> 2552
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-F8

<400> 2552

acgcgtccgg tcagacacaa agatatttac atttttgcag acaataatgg gtactttggt 60

caacggtact attccggcga tgaagtgtcc caagaatgtg gcgatgatga agacaacgtc 120

taacggagtg ttcgatggag agagtccatt anatttcgct tttcctcttg tcattcttca 180

gatttgcctt gtcgtcgccg tcactcgctc tttggccttc cttctccgtc ccatgagaca 240

accacgtgtt gtcgccgaga tcattggcgg gattcttctt ggccccgtcg gctctcggta 300

gaatcacgtc gtacaagaat tcaattttcc cggcgagaag tctaacggtg ctcgacactc 360

tagcaaacct cggnctcctt ctcttcnntt tcctcgtcgg gactccgaga tcgatctgac 420

atctctccga cgtaccggca aaaaagcga 449

<210> 2553
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-F9

<400> 2553

ctgtttacgc ctgnccgtac cggtccnaaa attcccgggt ccacccacgc gtccgcnggt 60

tccaaggaaa atggttctga ggtttttgtt aagacggaga agaaagatga gacagagcat 120

catcatcatc atagctatgc tcctcctccc aacagattaa ctggtaagaa aagccattgg 180

cgcgacgaag atgaagattt cgttgaagaa agaagtaaca agcaatcaag ctgtttatgt 240

tgaggaaagc gagctttctg aaatgtttga taagatcttg gtatgtggcc ctgggaaacc 300

tgtatgcatt cttaaccaga actttcctac agaatccgct aaagtcgtga ccgcacagtc 360

aaatggagca aagattcgtg ggaagaaatc aacttctact aatcataagt aacgattcta 420

agaaagaaac tgctgatttg aggactcctt tggtgttaag tgcacaagct gtacagtg 478

<210> 2554
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-G1

<400> 2554

antgttagcc tgccgtagcn tccaaaattc canggtcnac ccacgcgtcc gcaaaaaacc 60

tcaaaataaa aaaatgagaa ctctcttacc ttcccatact ccggcaacgg taacaacggc 120

ggcgagaaga agacacgtca tacattgcgc cggtaagaga tctgactctt tctccattaa 180

ttccagtagc tccgattggc aaagctcctg cgccattctc tcaagcaaag ttaactcaca 240

agaacaatct gaatccttan cttccaattc caatggatca tcatcctacc acgtttccgc 300

cgtcaacggt cacaacaacg gcgccggagt nctcaagatt tgaatctaag ttccattcaa 360

caacaaccan tcgattcaat cgaagaagcc tttaagtatt tcaagatnta tctccaagct 420

ccgatgcatg ggatntaacc tcccgtgtag cctaatcaan gtgttnccgg gagcctaatc 480

ccaaaaccgc cgctgggtaa a 501

<210> 2555
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-G11

<400> 2555

agatcgctct gttttctttt gttttctgat ctctctttag tctttgaatg attggtgaag 60

agtgttttct gggaacttgc cttaagctat agctagaaag atacacaaag atatatccat 120

ctcaaagctc ctgatgtgaa gagtgtttgt tctgtttttc taatccaaga gatattgtcc 180

ggaactgttc ttcagtgttt ggtgtcttag aagaaagaaa cacttttgga gcattatgca 240

taggagtttc tgaagatttc aagctaatta ctatcattaa tcagctatga agtttatgaa 300

acttggatct cgtcctgaca ctttctacac ttctgaagat ttaagatgtg tgtcctctga 360

agtttccagt gattttacta ntgaagtgtc anggaagcag gtaacctcct caacaagn 418

<210> 2556
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-G2

<400> 2556

ctgttacgcc tgnccgtagg cctccaaaat tcnaaaggtc gacccacncg tccgcccacg 60

cgtccggttg agatgtctat gatcgatgag ccgttgtacc caatcgccgt acttatagac 120

gagttaaaaa acgatgatat tcagctaaga ttgaattcca tcagaaggct ttctacgatc 180

gctcgtgctc ttggggaaga gaggactaga aaggaattga tccctttcct tagcgaaaac 240

aatgacgatg atgatgangt tttattagca atggctgaag aattgggtgt gtttattcct 300

tatgttggtg gtgttgagta tgcacatgtt cttcntccac ctttggaaac tctttcgact 360

gtcgaanaaa cttgtgttag gggagaaagc tgttgagtcg ctttgtagag ttgggctctc 420

anatganggg acattgncct gggttgatca tttccatttc gtnanttaag cgacttgccg 480

ctggtgaatg gttcan 496

<210> 2557
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-E6

<400> 2557

acgcgtccgc ccacgcgtcc gcaaatctca aatttgtttg gagactctca aatgtatcct 60

tctctcgacg atgatttcgt ctctgatttg ttttgcttcg atcaaagcaa tggagcagaa 120

cttgatgatt acacacagtt tggtgtaaat ttgcagactg atcaagagga tacctttcca 180

gattttgtgt catatggtgt gaatttgcag caggagccag atgaagtctt tagtattgga 240

gcttctcaat tggatttgtc ctcgtataat ggaagttttg tcgctagagc cagaacaggt 300

ggggcaacaa gattgnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnaagatg acgattgctc canaaagcgg 420

gcaaaggact ggatcttt 438

<210> 2558
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-C3

<400> 2558

ttctccggct aaatcatgtt tcgtcgttta antctccggn aagcanccgc cgtcnccgcg 60

gaatcgaaga ttgcttgtca ncatactgtt catggattcn aacagcgaag aggattacac 120

agtaggaatg agaaggcaat ggantatgta gccaaangat ggancgcgat taaanaanta 180

nagagagtta tcgattactg tgaactcaat gatcgtcgtc ttattcctct cctcagggga 240

gctaaagaga actttgaact tgctctggaa gctgaataat ttgnacactc atgctangta 300

ttggctttcc aagttgcacc tgaagtacca tgttcctgga gcttgtaaag ctgtgggaac 360

tgctttgctt gtcgaaactg canacatggg taatgcagat gctcaatatg agctaaggtg 420

tcnt 424

<210> 2559
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-C5

<400> 2559

cgccgttcgt acggcctcca naattcccaa ggtcnaccca cgcgtccgaa aaaactttgg 60

cctctccggt gactcttcct tcttctgcta ccgaactttt cgcttccttc tctgaccaat 120

ttttttcaac aacctctctt cttcaacaaa ttctcttctc aaatcctcca aatcctctct 180

gccatgaacg ctactttctt cctcctctcc ancaccgtct ccaccgtcac aatcancgga 240

ttcaacggtc tcgatttctc atcttagaac cacatgcatc ccttctgttg cgttacaact 300

gtctccgatc actctccttc gatgcctccg ttacctgaac cacaaccgcc tctaccgaat 360

tacgccgccg attttggttc ggcgagatcc gaaccgatta taactcgatn tgcttctcaa 420

agttataatc attcangtca attcaatanc aatcttaatc aaaaggctct cgtttaaaca 480

atcaacag 488

<210> 2560
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-C6

<400> 2560

acccaatttt ttacgangaa tcagagaaaa gtcgaaacct ttttccaata aaaagaaaaa 60

tcgaaacttt ccttggggtt tatcactttc ctccttcgat tccattttct gatccttttt 120

ctcgctgttg ctggagatgg cggaagagag gagcttgaac ggcgaagcga ctggtcagga 180

tgatgagagt ttcttcgatt ctgatcagca aggcgacgac ggcaagtcca cggaactcaa 240

tcagaagatc ggagacctcg agtctcagaa tcaaggaact ggccagagat aacgatgcta 300

tcaatcgtaa aattgagagc ttgacggcgg agattgagga gttgagagga gccgaatcca 360

aggccaagcg taaggatggg tgagatggag cgagagattg acaagtccga tgaagaaaag 420

aaaggtcctg aancc 435

<210> 2561
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-D1

<400> 2561

gtnaaggtcc aaggtccacg nncccgtccg cnttcaaaaa cacattcttg gtctttcttg 60

aattactcaa gaattttctt ctctcttctt ctctaaaaaa cccaaattca aaaatctgtc 120

taaatcttcc caactcttgg tggggttctt gaaagtaaaa aactttgttg aaaaaaagaa 180

atgaagcaaa ttgttataac agctcttgtt ttactacaag cttatgttct tcatcaatcc 240

acatgtgtta tgtcccttac tacacaagaa nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnngatt atcaacagag agagaaggaa ttgcataaac aagagagtaa 360

caacatgaga ctggttattt cactagcagc tacattttcc ttagttggta taatcttact 420

ttgctctctg ctttaatggt tttgccataa gagaaagaaa cctcaagagc 470

<210> 2562
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-D11

<400> 2562

tttctctctt ccataaaacc caaaagaaac taggaagagg agtaaataat atttgtttta 60

aagaaatgat tctccacaaa atggcgttct tggccgttat tctcttcttc ttgataagca 120

gcagcagcgt ttgcgttcat agccgtgaaa cgtttgcttg cgatacaaag gacgcagcaa 180

cagctacact gagattctgc cagctttcag ttcctatacc ggagagagtc agagatttga 240

tcggacggtt gacattggcc gagaaagtga gcttgttagg gaacactgcg gcggcgatac 300

cacgtctagg aatcaaaggg tacgagtggt ggtcggaggc tttacacggc gtttcaaatg 360

tgggacccgg tactaagttc ggtggggttt accctgcanc caccagtttc cctc 414

<210> 2563
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-D12

<400> 2563

acgcgtccgc ncgattaagc aaaaccctag atttattcta ctcttcgaag tcgatttcaa 60

tggaaggttc ctcgtcagcc atcgcgagga agacatggga gctagagaac aacattctcc 120

cagtggaacc aaccgattca gcctccgaca gtatattcca ctacgacgac gcttcacaag 180

ccanaatcca gcaggagaag ccatgggcct ccgatcctaa ctacttcaag cgcgttcaca 240

tctcagccct tgctcttctc aagatggtgg ttcacgctcg ctccggtggc acaatcgaga 300

tcatgggtct tatgcagggt aaaaccgacg gtgatacaat catcgttatg gatgcttttg 360

ctttgcctgt tgaaggtact gagactaggg ttaatgctca gtctgatgcc taagaagtat 420

aatgggtgga antact 436

<210> 2564
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-D2

<400> 2564

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aatacacaca atgaccaaag aagtttgctc caacattgga ctttggttat tgctcacgtt 120

acttattggt aactatgtcg tcaatcttga agcctcgcac catgtctaca agagacttac 180

ccaaagcact aacaccaaat ctccttccgt aaaccagccc taccggaccg gtttccattt 240

ccaacccccc aaaaattgga tgaacgatcc taatgggcct atgatataca aaggaatata 300

tcatcttttc taccaatgga acccgaaagg aagccgtgtg gggtaacatc gtgtgggctc 360

attccacgtc aacagactta atcaattggg atccacatcc tccagctatc ttcccatcct 420

gcaccttnng atatcaacgg gtgctggtcc cgggttcagc taactaatct ccctaatggg 480

aaaacnggtt atcctcc 497

<210> 2565
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-D4

<400> 2565

aactgtctag ccgctcgtag cctccanaaa ttccanggtc cacccacgcg tccgaaagct 60

aagagcaaca aactaaagat tttttaagaa aatggcagct tctaagcgac tagttgtccc 120

ttgcttgttc ttagttttgt tgtttgctca agccaattcg caaggtttga aagtaggttt 180

ctacagcaaa acatgcccac aactcgaggg tatagttaaa aaggtcgtgt tcgatgcgat 240

gaacaaagca ccaacacttg gtgctccttt gcttagaatg ttcttccacg actgcttcgt 300

tcggggatgt gacngatnag ttttgttaga taaaccaaac aatcaaggtg agaagaatgc 360

aagttcctaa cctaagtcct ccaaggtttg gcatcataga ccattccaan gcngctccta 420

aaaaaagtgt gtcccgggga attggtttcc tgccccggaa ancctgggaa cttgtcccca 480

aaaaaaccca atnggttgca ctttaaa 507

<210> 2566
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-D6

<400> 2566

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ccacgcgtcc gcccacgcgt ccgctttgat gacgttcacc caaacaaggc ggatgtgata 120

atggccttgg caggatcaag cggaggctca tggnctacgg gtttgtctca naaaccgaag 180

tcgaagaaca acacaagtga cggtccatac aagctaggcc aaatgtatga aggaggcagc 240

tctaaggaaa caccacaaat gcccccggaa tttcgtgcaa ggccgagtca tcaacctacc 300

tccagtgcct gtcaccggat ctttacacaa ccaggtagag agcatcaagg aagcatcatc 360

tcaaggggac gagatatcag agatccggtt cacagatcag attctgaaaa agaagncaca 420

tgattaaagt ctgaatatga gagacgatga gtgtgggctg ttcctccaaa ttgtggtttt 480

tttgt 485

<210> 2567
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-E1

<400> 2567

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tgggattagt caagcttcaa cagggaagga aagacagttg gtttattcct actaaactgg 180

ctacaaattt atcagtcagt ctggcagatt catcagcgcg aaaagaggga tttgtcgtga 240

tggaaacaaa cttcacaatg tatgcgtact ccacatctaa gttacagtgt gaaattttac 300

gactatttgc gaggataaga gtaccaactt ccaaacctta ttgcttgtgc cattacaaag 360

gaaagtttgt acaatgcatt tgacaatggc atcacatcag atnagattat aactttcctc 420

caagcaagaa ttcctcatcc acgatgttgc cgatngggtc ccatccnatt ccagaaaaat 480

gtcc 484

<210> 2568
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-E11

<400> 2568

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ataggactac tgggaaggaa cctggagaag caagctccac cgccactacg gcggagactg 120

tggaggagag atcaggctcc ggaagatggc ggcggccgag agatttaaag ggtggcggcg 180

atatcgaagg gattccacag gttttgggtc gtttggtttc gaatggttca agtaagattg 240

catgtcttta cacacagcaa ggcaagaaag ggactaacca agacgccatg ctcgtctttg 300

agaacttttg ttcgagagac gatacagtgt tttgtggtgt attcgatgga catggaccat 360

ttggtcatat ggttgccaag aaagtccgaa gatacattgc ccttcacact cttaanccag 420

ttgaaatgan ctcaagagtc agatnaaagc aacttagttt ggtgccaaag ggtt 474

<210> 2569
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-E2

<400> 2569

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cgcncacggc gtccgcattt ttctctcttc cataanaccc aaaagaaact aggaagagga 120

gtanataata tttgttttaa agaaatgatt ctccacaaaa tggcgttctt ggccgttatt 180

ctcttcttct tgataagcan cagcagcgtt tgcgttcata gccgtgaaac gtttgcttgc 240

gatacaaagg acgcagcanc agctacactg agattctgcc agctttcagt tcctataccg 300

gagagagtca tagatttgat cggacggttg acattggccg agaaagtgag cttgttaggg 360

aacactgcgg cggcgatacc acgtctagga atcaaagggg tacgaagtgg tggtcngang 420

ctttacacgg cgtttcaaat gtgggaaccg gtactaagtt ccggtggggg ttaacctgca 480

nccaacaatt ttcctc 496

<210> 2570
<211> 493
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-E5

<400> 2570

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aaggatatgg atacnaattc cttgatgctc attgataaca atggctcttt tgagatcgat 180

gaccaatccc atgtccatgt cgatgcctcc catacccttg aacctgtcac cctacccacc 240

aagcgcagga ggaagaantc tgacgtctgg aaccacttca ctgttgaaac tgttagccct 300

ggatctgcca aagcttgctg caancactgg ccgcaaatcc ttcgcctaca ttaatggcca 360

aaagttggca ggaactagcc atcttaaacg tcacattcaa ctgggtattt gtcccatgaa 420

ccgagacgac aagcagcacc ctccgcacaa atccgntact cccaacanca acaatgattc 480

tcccnagaaa cgc 493

<210> 2571
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-035-Q1-E1-B9

<400> 2571

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aatgagtcaa tcaaatcgtg tcagagacga agttacatta cctttactcc aaaaaacctc 120

tcatctgaaa aatcactcct ctgttctctc tgttttccta aatgaagcaa tctcaatctg 180

caaaatctct tacccattgg tcctcactgg tctcttcctc tacgttcgct ccttcgtctc 240

tctgtctttc ctcggtggtc tcggtgacgc cactctcgcc ggtggctccc tcgccgccgc 300

atttgcaaac atcaccggat actctctttt ctccggttta accatgggcg ttgagtctat 360

ctgttcacaa gcctttggag ccagacgcta taactacgtc tgcgcgagtg tcaagaa 417

<210> 2572
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-H2

<400> 2572

tacgcatgcc tgtngcggtc canggtcgac ccacgcgtcc gcanaagaag aatcgaaatc 60

cggagattat tccaactcgt ggagactatg cacggttacg caagtcgaag aactcaagat 120

tcggatccga atgttcccaa tctgggcttc tggtatcatt ttctcagctg tatacgcaca 180

aatgtccaca atgtttgttc aacaaggccg agccatgaac tgcaaaattg gatcattcca 240

gcttcctcct gcagcactcg ggacattcga cacagcaagc gtcatcatct gggtgccgct 300

ctacgaccgg ttcatcgttc ccttagcaag aaagttcaca nggagtanac aaaggattca 360

ctgagataca aanaatggga attggnccgt ttgnccccgt tctccgtatg gcanctgcaa 420

ctatccgtcc aaaatcatcc gtctccanaa gggcaa 456

<210> 2573
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-H3

<400> 2573

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ncgccattac 120

cagagctcaa cgagctctca ctttctttac gcacacttgt tggaacgaaa tatattcata 180

gagaagaaga atctcgaaac tcttgaatct aaaacaactc ggagactctg ttttcccttt 240

ccggagatca gatcggatca agatgcagac aaccaacggc tcagattcga cgttggcaac 300

ttnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nggggatgat 420

gatgatgcag cagcaacaag atgctggtgt ntcctcaata ataagttccg ttaaatcaaa 480

ggccctaaca acaagcatca tcc 503

<210> 2574
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-034-Q1-E2-H5

<400> 2574

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ccattggtta tatcaattcg atcatctcca caaagctctc gaagactctt tcggtgatct 120

catcttcttc ttcttgttta gcctcctgga ggttactttg tttgttacta gttccaaaac 180

atgccgaaag agaggaaaga acggtccgta tctcttgata agtataaacg atcgccactg 240

tgttgtgagg caagccttgc tttgaagccg agtgagaaac aagttaagga atgggaaaag 300

gctcgttgtc ctgtttgtat ggaacatcct cacaatggga atcctcccan ttgttcctcc 360

taagaaaatg ggttgtccaa cntacaatgt ncgaaactaa ncaaccggga atccnaactg 420

gttccattaa gtttcncaaa 440

<210> 2575
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-H7

<400> 2575

gcncacgcgt ccgcccacgc gtccgcccac gcgtccgcac aaaacaaaaa atattaagaa 60

agtgatatta tgacttgcag ccaaacactc ggaaacaaca acaccaacaa ataccatatc 120

tgcgaggaga tcggccgtgg ccgtttcggc accgtctctc gcgtctacgc tccggccacc 180

ggtgatttct tcgcttgcaa aaccatcgac aaagcctctc tctccgacga ccttgaccgt 240

gcctgtctcg acaacgagcc taagctcatg gctctcttgt cctatcaccc taacatcgtt 300

caaatccatg atttcatcga cactgattcg actctctcca tcttcatgga gctcgtcnat 360

ccctcngttt cgatntacga cgtctcgtct cttcnggaac ttctttganc tcanacggng 420

tcttcgctaa anagattctc aa 442

<210> 2576
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-035-Q1-E1-A1

<400> 2576

acgcgtccgc ncaccaatcc atttcttctc ttcttctttg cgtttttttgt ttggaactga 60

atcgaaaaag atggatgcta atttcgagat gcctccagtc ggtggaatga acgacgacga 120

cgacatggat ttcggtgacg gcgcctcgtt tcttaaagtc ggtgaagaga aagagatcca 180

acaaggtttg aagaagaagc ttcttaaaga aggtgaagga tatgaaactc ctgagaatgg 240

cgatgaagtt gaagtgcatt acactggaac tttgcttgat gggacgaaag tttgattcga 300

gtcgtgatag agcaacgcct ttcaaattca ctcttggaca aggtcaagtt attaaangat 360

gggatattgg tattaagacg atganngaaa anggtgaaaa cgctgtnttc actaaacctg 420

cggagnctag natatgggga anccgggtcc cc 452

<210> 2577
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-A2

<400> 2577

acgcgtccga agaagggttg gaatcagttt gtgggaaata agttcacgag cagtgcttct 60

gcatcgacct gttcagctaa atcggtcacc actgatctga atcttagggt aagttcagtc 120

accacaggat ccggtctcaa gaagcatttg gatagcaaag atttttctca gccacaatct 180

gtgtcctcct attcctttga taacccaagg gacctcaacg cagagagttt caagattatt 240

tacanaagat taaccgatat ggtttcagga caagatgagg ctgctagagt tatcagctgt 300

gcactgtcac aaccgcctaa gagtgtcact cgaanagatg tttggcttaa tttggttggg 360

tcctgatact gtangaaaga gaagaatgtc nccttgtcct tgctgaaaat gtgttacaaa 420

agcgaacaca nattttatg 439

<210> 2578
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-035-Q1-E1-A4

<400> 2578

tagncgtcca gaattccagg gtcnacccac gcgtccggnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnntaagaca gctttgaatc 120

tacagacaac ttcattttta ccaaaatttc tgtttcttca aaggattgaa ctttcatatt 180

tctctcttgc ccagttctga gttattgcaa tcagaagttg taaacacttt tcctgtctct 240

ttctgctacc cgaatttatc ttctttagcg tctgtctctt tcaagcggac gtgtcttgtc 300

tctttaaggt aatttncaag acttaaactt gaagtatctc tggccttctt ctgctgtctg 360

tttcattttt gaaatcgatt tggagattaa gatctgactc agcttcgact aaaagncaat 420

tgctttcgcc tttggattgt tgattcccta atggatgttc ttaacccctt aaaaa 475

<210> 2579
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-A5

<400> 2579

gtcnggcccc aaaggtccan agttcccggg tccacccaca cgtccgnaaa tattcatcgc 60

aattcgtatc ggtttaaagt aaaaaagcaa tgggaggtgg taaagacaag catcatgatg 120

agcaagagaa aggatttcat ggttttccag gaggtggaca ttacccacct gctcaaggag 180

gttaccctcc tcaaggttac ccaccacaac aagggtatcc tccagctgga ggctacccac 240

ctgccggata tcctcctggt gcttaccctg ctgcgcccgg tggttatcct cctgcacctg 300

gaggttaccc tcctgctggg ctatcctgca cctggagctc accattcagg acattctggt 360

ggtggactcg ggaggcatga tagcaggtgc agctggtgca gccgcagcag cttatncgag 420

ctcaccatgt tggtcacgcc tctcaaaaan ccttacgggc atgctgttan ggacatggaa 480

ggggtat 487

<210> 2580
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-A8

<400> 2580

naactgttcc gcctgccggt aanggtccaa aattcccggg tcgacccacg cgtccgggca 60

ttanagccct ttgcaggaac ttggccagtg tatcagcatg actgagttgc agctcgatca 120

tactgcagct acatcaaatg tcaatcctgg agatcatgtt ctagggatct ctcctacgtc 180

atctctctct ccaggaactc agagtctcct gcctcttatt gaggctttct ttgttctctg 240

tgagaagatt caaactccgt caatgttaca gcaggatgca actgtgacag cgggagaagt 300

aaaggagtcg tctactcatg gttcttcatc gaaaaccatt gtagattctc agaagaaaat 360

tgatggttct gttacatttt caaagtttgt ggagaagcac aggcggcttt taaattcatt 420

tgttaaggca aaatccaaag tttgctggag aagtcttttt caatgatgct caaaggaaca 480

aggctgantg a 491

<210> 2581
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-A9

<400> 2581

acgcgtccgc aagaacatan gcactattac attgcaacac tttctacaaa aacaagatga 60

agattgcaac gttttctgtt ctactcttgc ttttanttat tttccccgtg gcattaagcg 120

cagctgaaat ttaagtttta cagtgaatcg tgccctaatg cagagactat cgtagaaaac 180

ctggttcgcc agcagtttgc tcgtgaccct tcaatcacgg ncgccttgac tcgtatgcat 240

tttcacgact gttttgtcca gggctgcgac gcttctctcc tcatagaccc aacgacgtct 300

caactatcgg naaaaaacgc cggcccaaac tttancgtga gagggttcga gctgatcgac 360

gagatcaaga cggcactcga agctcaatgt ccctctacng tctcggtgct ccggatanaa 420

tca 423

<210> 2582
<211> 461

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-B11

<400> 2582

ctgtttagcc tgcccgtagc ngtccgaaaa ttcccnggtc cacccacgcg tccgcaaaag 60

ttttctgttt taacttttcc tctgtttttg atttttctct ctgaatctct ccttcatttc 120

cccgggaaat agtaccaaga aaggntatca tcgatcaaac tcttcttggt ggattcttca 180

gagatgggtt tagtcaacgg gagagcttcg ttgacctttc tcctcgcggc gttgaccatc 240

atcgctatgg tcgtcgaggc tangtttgtg gtggagaaag aaagcataag cgtgctgaat 300

ccagaggaga tgangtcgaa gcacgacggc tcgatagcca atttcggttt acccgattac 360

gggtgggttt ttaatcgggt caatggttta tccgggataa gtaaaancca tggatgctcc 420

gcntttggtn aaaacttcaa ncccaaattt cctncgtcca c 461

<210> 2583
<211> 509
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-B4

<400> 2583

aantgtctac gccgtgtcgt agcctccaga aattccaggg tcnacccacg cgtccgatct 60

tctccggcga tgaagacgac ggcgacgtcg tttgtnacgg gagagagagt tgtagttttc 120

gtcgtggttt ctcgtattct cttacctctt cctttatcac ttatctccca tgggcttctc 180

cctcttccnc ctctctctct ccgccttcct cgtcgagatn cgngtcgana cttcnccgtt 240

tcttctctct catttcaagc tccaagacgc ggtgcgtctt cagggatatt actacgaggc 300

tgtgacactt ccttctgtta tgatatccaa gttacgttcc agctttcaag agctatttca 360

ntccantgaa gctgaacaag atgagcttgc acatgtgaca atgcagtatt gggcagcatc 420

ggctaagttg ttgtgctana acctaaatat ccaatcaatg gattatgtca caaagtgaag 480

aanagatgaa acctttgncc tcaaccgtc 509

<210> 2584
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-035-Q1-E1-B6

<400> 2584

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngccgact ccacaaattt 120

tgagcttctt tttttgaagt tcttgagaac aagtgaaaga gcttaatatc cacaagactc 180

ttgtttcttt cttaaatggc taaagtttat tggccttatt tcgatcctga atatgagaac 240

ttgagctcca gaatcaatcc tccaagtgtt tctatagata acactagctg caaagaatgc 300

actcttgtca aggtggacag tatgaacaaa cctggaatac tacttgaagt tgtgcaagtc 360

ctaaccgatt ctccgatctc actatcacta aagcttatat ctcctccgaa ggtgggatgg 420

gtcaanggac gtaa 434

<210> 2585
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-034-Q1-E2-H10

<400> 2585

tttangacgg tgactatcnc gaaagtggag ttctctttca gcggtggcgc cgtcgtggag 60

cttggttcna aagggatatt ttacgtgttt aagatatctc aggtttgtct ggcgtttgca 120

aggaatagcg atgacagtaa cgctgccatc tttggaaacg ttcagcagca aacgcnagaa 180

gttgtgtang atggtgcggg tgggcgggtc gggtttgcnc caaangggtg tacttaantt 240

agttaatgaa naacataacg gggtaaattt taaatttatg gatttggcac anattatcgt 300

tatccttaat caagtgtgta atttgggtaa agatcagaat tcgtgatggt ctttgaaata 360

attgtatagt aataagtgtg catgatacaa caattacnan tacgcntttt gnaaaaaaan 420

ggggnggcng ctctagaagn ttcaagctt 449

<210> 2586
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-F3

<400> 2586

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atgggacgga tcttcgagta cttcgtcgtg tgcggacttg gtccagagat gcgaaccgtg 120

gatggagatc ttggattcca tggaatgcaa acattctact tgcctgctct tcttgaccag 180

ttccctccta ctgatcaatc tccttaccct gccccctcctc ctcagcttcc tacttgtgtt 240

cttcctgctg gggtggagtt ccattcttct ggttttgttt ccagtgaccc tgcaagtttc 300

ccacggagct atcccatagt cttgacggan ggtgatggat naaaaatatt gtcagttgca 360

ttgcatttcg ggatcagtct gtgaggataa tattgaagct tancgcttaa cgccgaatac 420

atacgcanac aagtgtatct gtcctgt 447

<210> 2587
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-F6

<400> 2587

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agtttcagct ttatgaatcg ggagtgtttg acggaacttg cggaacaaac ctaaaccatg 120

gtgttgttgt ggtcgggtat ggaaccgaga atggtcgtga ctactggatt gtgaaaaact 180

cgaggggcga cacatggggg gaggctggct acatgaagat ggctcgcaac attgccaatc 240

caagaggcct atgtggcatc gcaatgcgag cttcataccc tctcaagaac tcgttttcta 300

cggataaagt ttcggttgcc taataatatg aactaaatgt atgccatgga acggatcggt 360

taagccatta tcgttattcg actttgaagg aaactaaaaa atatgtggtc gantggtttg 420

gtttgttata antaagcat 439

<210> 2588
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-F7

<400> 2588

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ctatgcttcc tcttcctcgg ttgcttcttc ttccctaaag acgcagacta taaacaaaag 180

agaagaaaga agaagcttag aagagtnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nggacgtatt taaaacgagt tttcttatcc acgacaagga tatccaaatc ccgtaaccaa 300

acacatccta acgttacttt aacatcggca agattnatct caaaaatccc tccgnnatcc 360

tcgtcaaacc cgatacaaca aaacnaaccc gaacccggaa anagttatta ataagnaanc 420

gaaattcgan attnccctct tcgaacaaat 450

<210> 2589
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-033-Q1-E2-F8

<400> 2589

gatcatctta tcttcacaat gaagaacaag aagacgaaag atgttgtagc tgataaagtc 60

aaaacagaag tcaaggaagc aaaaacagag gaaatcaaga acacagagcc tgaaacagag 120

caaaaacaga gctgtgttat aaacgagaat ctgaagaaga tcgctagacc ggatcatttc 180

ttgcctgtga ctgtgatctt ggttcttgtg tttttggctt tctttggaag atctgtagcg 240

attatgttta cttgtatcgc ttggtacttg gttccaacga ttcaagaaca gagtggaaac 300

agaggatcat caccgtctta cgcgatgaag aagaaagatt tcgctaggaa attgagtatt 360

gaaaacagaa catcgtttaa tccaagaact gttcgtgatc attctcctcg caagtagaag 420

aatttcctaa ttttggctgc tcgtg 445

<210> 2590

<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-G1

<400> 2590

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aacacttacg cagaaacaaa aactaaactt tggatctttt aaccgaccat agagattcgt 120

gggttcttct tagtttcgac agattcttga tccgttttag ttgttacgct catctttgct 180

tttatacatc agacccttct cttctcttcc ttctttatct aagaaacatt agggttcttt 240

gaaatcttgc taaaaaaaat gggtgttgag aaaatggtgt gtttagcttc tcgtacgggt 300

cgtcagtttc agagatacaa caaaggtcgt cgtcaagtcg ttggatgtgt tccttacaga 360

ttcaagctat ctaaagatgg naaaataagt gatgaagtag aagttcctgn taactcctcc 420

caaaaanggc angccttaat gttcccca 448

<210> 2591
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-G11

<400> 2591

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gaggaagctt cactcccaat cacttgcaac tccggttttg tcttggtttt cttcgaagaa 180

agctcatgag gatgctggtt cttctggtgt aagagcactt gccttgttgg gtgctggtgt 240

tacaggactg ttgagttttt ctacagtagc atctgctgat gaggctgaac atggattgga 300

gagtccagag taccttggc ctcatgatgg cattcttagc tcatatgacc atgcttcgat 360

tcgtcgtggg catcaaagtt tatcaacaaa gtccgttgca tcatggccat tcaaatgtcc 420

ccngattctc aataanccga agaactttgg tggggttgtc cncctaaca caagaaggga 480

aagaagg 487

<210> 2592
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-G3

<400> 2592

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tccgccagaa atggatggaa tgatgataga gctagcagta caaacgaagc aagtcttcat 120

tctgctcttg attttggtgg aaaatctagt atagcttctg tgcccataac agacaccaca 180

catgtgaaat ctgagactgg ctctccaaga cattcatcct ctgctaaaat ggatgaaact 240

aatggccggg aggaaaaatc agagaaggaa ctgaatgatg atggtgaata tttgattaga 300

ccttatcttg agcatcttga aaagattcgg ttcagataca actgtgagag agttgttgat 360

ctcgacaagc atgatggaat cttcttaata ngggaattct gtctgtatgt gatagaaaac 420

ttttacattg acgaagatgg gtgtatttgt gagaaagaat gcnaagatga gttaccgtta 480

atgatnaaac gttgggtgtg aaa 503

<210> 2593
<211> 353
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-G5

<400> 2593

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gagagggccg ttcagactga ggattggatt ttattggtac tgagagtggg aacgtagtca 120

ttcatgagtt aagttttgct tggaatggtc gtgagaagtg ggtcatcgtc tttttccctt 180

tgcgttgtgt tgtgtgatgt tggtacgggt tatcttcgtg cttcttgtcg aattgagtat 240

attgtatcag taaagaattt ataacttaaa aagagcctta tgtcaaatac gacgtcgttt 300

tgtatgggaa atggattttt tacaccgctg aaaaaaaaaa aaaaaaaagg gng 353

<210> 2594

<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-G7

<400> 2594

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agatgcggcg acgatggtaa cggcgccgga gagacagtaa agaatggcga aattgatcat 120

ttgctttccg aaccgtcggc tccgactatt tctctcccta cggaatcttt cctcagagca 180

gcgacgttac tcaagaacca ggttgtggag gccacgtgga aaggtggtgt cgaagctctt 240

gcctctggtt cgggtccagt gctggattcg actgtgtaca cangactact cggcacaacg 300

ttcacctgct tgaaatcgta ccaagttacg cngaancatc aagatctgct aacttgcgca 360

nagattatcg acactttgcc aaagttncgc gtgccacaan cangcacgtn acattttang 420

ttgaaaaagg angatttgtt 440

<210> 2595
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-G9

<400> 2595

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntctt 120

ttgattcaag tcaaacacta ctcagaagtt ttctcatcgg tatcgagaga gatccatcgg 180

attctatcat cggatgttat atctgttcgt cggtggttat cggaggatat gctccgtggt 240

tggttcgggg gtgttagtgg ccggtgaggc agatggtgat gatggtggcg gttgatgatc 300

gacaaaatta naaagcgtgt tttcttattt gtttcgtttt gagtttgtct cttaagtgtt 360

ttggtantag aagatgatga anaaggggaa aaggaaagaa cagtggcttg ttancgaaat 420

cccttaanaa taaatcctcc ttgccttaaa actggtaccg gtaacgc 467

<210> 2596

<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-H10

<400> 2596

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gtatgtttga tggtaacctt gggccgtacg ctaatcttgg gccaagagat gtttgtactc 120

cggcccataa acatttagct cttgaagcag cccatcaagg gattgttctt ctcaaaaact 180

ctgctcgctc tcttccactc tcccccaaga cgccaccgca ccgtcgccgt gattggtcca 240

aactccgacg tcactgagac tatgatcggc aactatgcag ggaaagcatg cgcctatacg 300

tcgccgttgc aagggatttc aagatacgcg aggacacttc accaagctgg ctgtgccggc 360

gtggcttgca aagggaacca aggatttggt gcaacggang cancggcgcg ttgaaaccga 420

cgcgacggtt cttgtgatgg gaataaatna gtcatagagg naagagaca 469

<210> 2597
<211> 529
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-H12

<400> 2597

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gtccgctcct catcctcctt cttccaagaa ccaaaacctg agcaaagttt gacacggtta 120

gaagatcacg tgagcatatg agaagccgag aagagagcga gtttgaaaca gtttgggtga 180

tgctggtggt tcatcaaatg aagctgctaa caaaagacaa ggaagagctt ctcaagaaca 240

atagttatga caacaagtca cctttgcata agaattctta tgatggtact ggaaaatcta 300

agcctaaacc taccaacctt agagctgatg aaagtcctga aaaagtcaca gtggtgccta 360

aattcggtga ctgggacgag aacaacccgt catcagctga cgggatacac gcatatcttc 420

aataaagtcc gtgaagagag aaattctgga gcaaatgtga atgggttttc aagaacgccg 480

actcatcaaa agtcccgtta acccgaacaa cacttcctca agttgctgc 529

<210> 2598
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-F2

<400> 2598

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caaacccgaa aacaaagaac attcgtctct acgtgaagcg tgtgtttatc tctgacgatt 120

ttgatggaga gcttttcccg agatatctga gctttgtgaa gggagttgtg gactctgatg 180

atcttcctct taatgtttct cgtgaaattc tccaagaaag cagaattgta agaatcatga 240

gaaagaggct cattagaaaa acctttgaca tgatacaaga aatctctgag agtgaaaaca 300

aagaggatta caagaaattc tgggagaact ttggtagatt ccttaaattg ggttgtattg 360

aagacaccgg taaccacaag cgtatcacac cgctacttag attcttcagt tccaagaatg 420

aanaggaatt gacaagcttg gatgattata tcgaagaaca tgggagagaa ccaaaaggcg 480

atctactanc tcgcaactga taatcct 507

<210> 2599
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-D5

<400> 2599

gcaccgatgt aaaggtaaga ggaagagatt tgattgaatg actcattcat tgttagtttt 60

tggctatgtt taggattatg ttctaataag tgttcttttg ctgttttcag atgagtccta 120

cagatgaaga tgaattctct atttacaaac agagaagcac tcatatgaga aaccattctt 180

tagaagagga tttggaggct gagaagacca tttcctttca agataaggtt gatccaagtg 240

gagaagaaca aactctgatg agaaatgagt ccatctcaag aaagcaaagc gatctcgaga 300

caccggaaaa gatggaatca tttagcacat ttggcgatga aatccaatcc gtgggatcga 360

agtctacaaa agtatctgaa gactacaatc aggtgacgat gaanaagaaa gaagaagana 420

tgttgagtta gaacaagatc ca 442

<210> 2600
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-D6

<400> 2600

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ccttgttctc tatttttttt gcacaagcaa catttagctt ctgcaaactc cagttcatct 120

ctcaaccctc atatcgccgt gttttctcgc tctagtaccg cgagctcgga cgaaccagga 180

agcaatccgt taatctagaa gcggtgttga gaagatgacg attacatcaa atatctctgt 240

acagaacgat aacctcgttg ttcaagggaa gactatcctt accaaaatcc ctgacaacat 300

tatcctaact ccggttaccg gtaatgggat tcgtttccgg ttcanttana aggcgcgacg 360

tttgaacaaa gcaagagtct tcatgtgttc cccatcggtg tattggaggg tcttcggttc 420

angtgctgtt tccggtttaa gctaagg 447

<210> 2601
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-D8

<400> 2601

gatcaaaatt cacaccggcg attttgagat tgttctctga ttggcttaat ccgagagaat 60

caaggaattg aatggccaag tgaatcagat gcatcgagca ttgctactct ttcctgtgct 120

cgctgcgaga agcctgcaca tcttcagtgt ccgaaatgca tagacttaaa gcttcctcgt 180

gaacaagcct ctttctgcac tcaagaatgt ttcaaggcag cttggagctc gcacaaatca 240

gtacatgtga aagctcagct gtcttcaatc ggtgattaag aactcctgat ctatttcctc 300

aaggctggct ctattgcgtc aagaaaggnc aaggctaaga acacctaagc ttccacactt 360

tgattggact gggcctctaa agcaatatcc catatctaac aagcgtgttg tgcctgctga 420

gaatgagaaa cctgactggg caattgatgg 450

<210> 2602
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-E1

<400> 2602

gttcaaaaga agaaaaagaa attacgaaac tttcttcttc aagatatttc aaaatcaaac 60

tttggtttaa gggtcccann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnaatcccct gaaagcttat aggctccgtt 180

gaacagttat aacttgtgaa agttgaatcc ttttaaaccg acagaggaag atctcagatg 240

gcaaacaaga taagtgaaac tgcttccaag atggacgatt atgaggtcgt ggaacagatc 300

ggacgaggcg cttttggttc tgcttttctt gtaattcaca agtccgagag acgaaagtat 360

gtggttaaga agattcgttt ggctaaacaa acagagagat gcaagcttgc tgcaatccaa 420

gagatgaatt tgatatcaaa agctta 446

<210> 2603
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-033-Q1-E2-E12

<400> 2603

gggaaaatca aattctcaga caacttttt cgaagaagac gacgaatttt aaagattttg 60

ttttctatat tctcttctga tagtgaagtc tcggagactg aatgatattg tttctggtca 120

acttaaccaa tttcagaaca tggcaaacag agcagacaac tcaatgcgtt gttcaaatag 180

taagaaaccg aatgacggta tgatgctcgt aatatcgatt ttcgcgggaa tagttatcgg 240

atttttatta ggcatatctt tccctacatt gtcactaact aagatgaatt ttccatcaag 300

cattcttcct tctgttgcta ctgtctacat agaaaatgag aaaccggaga aatcatctaa 360

gacgagttca caaaacgaaa gtgatgcatc acatcatcat aagatttggg gttcaacgaa 420

tcctccaagg gcagagatgt tacctccaag tttgttgcaa ccgaat 466

<210> 2604
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-E2

<400> 2604

ctgttaccct gccngtacgc gtccgaaaat tcccnaggtc gacccacgcg tccgaaagaa 60

gaaacctttt tgattctctt tgcgatttct ttgttcaatc tcttctcaga ttgtgtgaat 120

cgggtttaaa tcggggtttt agggtctctg ttttcaaaag ggtaccaaaa agtttggagc 180

tttactgtag aaagatttga tttttcgttg acccactccg agattttcgg atacaaatca 240

gggttttagg gtttttgttg gaatggaaga ggattatcaa cagccgaggt ttacgattgg 300

taggcaatca tcaatggcgc cggagaagat tccggagccg tcggttcact cagaagaaga 360

ngtgtttgag gatggagaag agatcgatgg tggtgtgaga ctaatgtatt tggctaatga 420

angtgacatt gaagggatta aggagcttaa tgattcaagg attgatgcta attacagaga 480

cattgatgat cggactgctt tac 503

<210> 2605
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-E3

<400> 2605

gcaacgccaa attggtatta ctaggagatg ttggagctgg aaaatcaagt cttgtgctac 60

ggtttgtgaa agatcagttt gttgaatttc aggaatcaac cattggtgca gctttttttct 120

ctcaaacatt ggctgtgaat gatgcgactg tgaagtttga gatatgggat acagctggtc 180

aggaacgata ccacagtttg gctccaatgt actacagggg tgcagctgct gctattattg 240

tctttgacat tactaatcaa gcctcatttg agagggcgaa gaaatgggtt caggaactgc 300

aggcacaagg taaccctaat atggtgatgg ctcttgctgg aaacaaagct gatttattan 360

acgcaaggaa agtgtctgca gangaagcag agatatatgc tcaagagaac aancctttcc 420

ttaagggaaa cctcagcgaa agancgcaac aaa 453

<210> 2606
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-E4

<400> 2606

ntccgaaaat tccaaggtcg acccacgcgt ccgcnctctc ttctcttttc aagtcttctt 60

cttcattact cgcaccatga ccaaaccctc cgacccaacc agagactccc acgtggcagt 120

tctcgctttt cctttcggca ctcatgcagc tcctctcctc accgtcacgc gccgcctcgc 180

ctccgcctct ccttccaccg tcttctcttt cttcaacacc gcacaatcca actcttcgtt 240

attttcctcc ggtgacgaag cagatcgtcc ggcgaacatc agagtatacg atattgccga 300

cggtgttccg gagggatacg tgtttaacgg gagaacacag gaagcgatng aactgtttct 360

tcaaactgcg ccgggagaaa ttccggagag aaatcgcgaa ngcggagacg gaggttggta 420

cggaagtgaa atgtttgatg actgatgcgt tcttctggtt cgcggctgat atggcgacgg 480

aga 483

<210> 2607
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-E5

<400> 2607

gaaatcgaaa tcacagatga aagcgaacat gtcgtcgtcg tcttccactc gatacagatc 60

cttcttcgtc ttcccaattc tcttcgccgt cttgttcctg ggacttctga ttccctcctc 120

cgccgataac cgccacgtta tcaacttccg atcgccggga ctctacccgg agggactaac 180

ctgggatcca agggaccagc attttctagt cggttctctc cacagccgca caattcattc 240

cgtctccgac gctggagtca tcgaaaccct aatctccgat ctcgatctac cggagaactc 300

cactatcctc ggtctcgccg ttgactctac taatcgccgt ctccttgcct gtatccagag 360

tttgccgcct ctccctccct tcagtgccct aacctcctac gatctccgca gcggangccg 420

tctgtaatcc tctctcctct cccg 444

<210> 2608
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-E8

<400> 2608

ggaagaaaga aggaagacga tgatgatgct cagaatccga agcagagatg gactggagag 60

agtcacagcg gagggagctc atatcactgt ttcccagctc aaaaccttga tcgcggatca 120

gcttcagatc cctctccata agcagacctt atccaccaat cgtgatctcc tcctcgccaa 180

aactcccgct gatctactcg ccttcaccga cctcacggac ccaaacntcc ccctctcctc 240

tctcaacctc ggccatggct ctatgctcta cctcgcctac gatggcgagc gctccattcc 300

tggagctcct cccgttactc ctgccggatt cttcgggaag gaatatgaac gtcgatgact 360

tgatngcccg ccaagatncg cgtcactcgt cangagacgt ctcactgcga ctccgtctcc 420

tttcgattgc gatgccggcc aacgctttcc 450

<210> 2609
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-E9

<400> 2609

tctcttctcc gtacggagac accgagcaaa aactggcttc ttacttcctc caagctctct 60

tcaaccgcat gaccggttca ggcgaangat gctaccgaac catggtaaca gctgcagcca 120

cagagaagac ttgctccttc gagtcaacgc gaaaaactgt actaaagttc caagaagtta 180

gcccctgggc cacgtttgga cacgtggcgg caaacggagc aatcttggaa gcagtagacg 240

gagaggcaaa gatccacatc gttgacataa gctccacgtt ttgcactcaa tggccgactc 300

ttctagaagc tttagccaca agatcagacg acacgcctca cctaaggcta accacagttg 360

tcgtggccaa caagtttgtc aacgatnaaa cggcgtcgca tcggatgatg aaagagattg 420

gnaaccgaat ggagaaattc ctaggcttat gggaattncc tt 462

<210> 2610
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-F10

<400> 2610

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tttgcctaat cggtgcttct ccagatttcg cttatcttgt tcctatagca taacaatggc 120

ggatttcaaa ccaaggatcg agatttcgtt ccttgaaacc ttcatttgca gcgctttcgc 180

tgcttgtttt gctgagttat gtactatacc gttggacaca gccaaagtta gacttcagct 240

tcaaagaaag attcccactg gagatggtga gaatttgccc aagtatagag gatcaattgg 300

tactctagct accatagcta gagaagaang tatttcaagt cnttggaaaa gtgttattgc 360

angacttcat cgccaatgta tctaaggggg ctaangantg ggttatatga acccgtgaag 420

acactttggg tggnaattac cttaattggc gaaaatccct taaaa 465

<210> 2611
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-F12

<400> 2611

ggaagatgac tttaccgctt ggcgagaagc attgtggccc gagcttgata caatactgag 60

ggaagaaggg gatacagctg ttgccacacc atacactgca gctgtgttag aatacagagt 120

ttctattcac gactctgaag atgccaaatt caatgatata aacatggcaa atgggaatgg 180

ttacactgtg tttgatgctc aacatcctta caaagcaaat gtcgctgtta aaagggagct 240

tcatactccc gagtctgatc gttcttgtat ccatttggaa tttgacattg ctggaagtgg 300

acttacgtat gaaactggag atcatgttgg tgtactttgt gataacttaa gtgaaactgt 360

agatgaagct cttagattgc tggatatgtc acctgatact tattcccact tcacgctgaa 420

aaagaagacg gacancaatc aacaactcaa tggctcctcc cttc 464

<210> 2612
<211> 630
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-D4

<400> 2612

cccccgggtt aaanccgccg gttccccggn naaaaaattt tccccccggg nggggntccc 60

ggaaaccccc aaacggnccc ggttccccgg cccanttttt ttttttttt ttgttgggtt 120

gttgccnaaa aaaacggttn ctnctcctnc tcctngtcct ncaattaaaa aatnctncaa 180

agaagaaaag aaaaacaatn cgtccngggt tcaanggtcc gaaaagaaaa ngggaagaag 240

aaaattgaag ttgggtccac gaattccgaa aataactttc tccaacgaac gaaagaaagg 300

ggaagaagat tccctgaagc tcaaagggaa gaagcttaat tcccaagtat aaggataaga 360

gaaaagatgc agttaagaag gttattgcgg cgatgactgt tggaaaggat gtttcatcac 420

ttttcactga tgtagtcaat tgtatgcaaa cggaaaattt ggagttgaag aagcttgttt 480

acttgtatct cataaaatta tgcgaaaagc caagccaaga tcttgctatt cttgcagtaa 540

atanctttgt aaaaggattc acaaggattc aaaatccgct gaatcntgcc ttggctgtnc 600

cgacaatggg gctgcaatct gtttgataaa 630

<210> 2613
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-B9

<400> 2613

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gcggaaacca aatcggttcc aagttttggg aagtggttaa tctcgagcac gggattgatc 120

agacgggacg gtatgtagga gattccgagt tacagcttga gagggttaat gtatactaca 180

acgaggcgag ttgtggaang tacgttcctc gcgctgttct catggatttg gagcctggaa 240

ccatggacag tgtcagatct ggtccgtacg gtcagatctt tccaccggat aacttcgtct 300

tcggtcaatc cggtgctggg aanaactggg ctaaaggtca ctacactgaa ngtgccgaac 360

cttattgaat ccggcccttg angttnttcn caaaaaaggc tnaaaaactg ttaanggcct 420

caaagggttt taaggggtgc caatnccttt gggaaggagg aaantggt 468

<210> 2614
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-C10

<400> 2614

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ggaggaaaac tctctggaga taagcttacc agtacttatg accttgttga gcaaatgcag 180

tatctctatg ttcgtgtggt taaggcaaag gagttacctg gcaaggatat gactggtagt 240

tgtgaccctt atgttgaggt taagcttgga aactacaaag gcaccactag gcatttcgag 300

aagaaatcta atcctgagtg gaaccaagtt ttcgcctttt ctaaagatag gattcaagct 360

tctttccttg aagctactgt caaggacaag gattttgtca aagatgattt gattggtccg 420

gttgtcnttg atttgaatga agtactaaga aaantcctcc cgat 464

<210> 2615
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-C12

<400> 2615

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cttgggaaga tcggcgagca ttatccaaag aaaagtgcga tcatatcttg cgcagaaaac 120

ttttatccaa ctgcgtattt ctgctacaca aatccaagca gtttgtagag gttatcttgc 180

tagaagtata tacgaaggca tgcgcaggga agctgctgct ttgaaaatcc agagagactt 240

gcgtaagttt ctggccagga aagcttacac tgagctattt tctgctacta ttttaattca 300

agcgggtatg cgtggtatgg tttcccgaaa ggaattgtgt ctcagaaggc agactaaaac 360

tgcaaccata atccagaccc ggtgtcncgt atacttggct ccggtgcaat taccgaaaac 420

taaagaaagc anncatcacg acacaatgtt catggagaag gaaaaatt 468

<210> 2616
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-C4

<400> 2616

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ncttaaccct tncgacaaaa aaaaaccaan aattnaactn caagggcaan caaganaaca 120

ancaagcntn caaanacatn aganagttan cgnaccttgg nttacgaact tccttccccc 180

aaaaacctca aaaccttggg aacacattca acacgcccat caacacacac gcgtaccgac 240

aaaatgatgg taagacttcc aagtacctcc gggaacttat tggtcgtctt tggtctgaac 300

agcaaagcca gtgtttgcag cgccgctgct gtgaaagtag ctatcccgag gctccgatgt 360

aacccatagg tcactccaag ggaattatgg ccgagcacga ttccaatgga gaaaccaatg 420

ggtcctaagg angaaaccgg ttaactgtaa tgctgcntgg atgttagaan caaatgggtc 480

ctaatgaatg cantttgg 498

<210> 2617
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-C5

<400> 2617

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnactcat tttctccgca gagaaaatac 120

aatccatggc ttctactttt aggctctcta ttagcttcct cactctcatc ctcttctctc 180

tgtgggtagt ggaggcacac acgtctagaa agttgatatc aatcaaggaa aaagaaggtc 240

aagatattag tcatttgctc aaagatggtg aatttgatga cccttcgttg tacatgtatt 300

tcacactcaa tgatctcaaa ctangaacca aattgctgat ttacttctac aaaaacgatt 360

cttcaaaagc ttcctccact tctcacaaga caacaaagcc gatctcantn ccttcactaa 420

agtcaaagcc ttgactttcc ttctcgaca 449

<210> 2618
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-C6

<400> 2618

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ttttcgagat gccgtattga atcggctacg aatttcccaa ttttgaattt tgtgaatctc 120

tctctttctc tgtgtgtcgg tggctgcgat ggaggccagt gccggcttgg ttgctggatc 180

ctaccggaga aacgagctcg ttcggatccg acatgaatct gatggcgggt gcagaccaaa 240

cctttgaaga atatgaaatg ggccagatat gtcagatctg tggtgatgat gttgggactc 300

gctgaaactg ggagatgtct ttgtcgcgtg taatgaatgg tgccttccct gtgtgtcggc 360

cttgctatga gtacgaaang aaagatggaa ctcagtgttg ccctcaatgc aagactaaga 420

ttcagacgac acaaggggaa tcctcgtgtt 450

<210> 2619
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-C7

<400> 2619

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ctggtggcgg gtttggtgtt tccgggtcgg gtaatttccc gagacctgag atgtggggag 120

gtgatcctaa tatggggttt aggccaatga tgaatgcacc aagaggaatg caaatgatgg 180

gaatgcatca tccaatgggg ataatgggta gaccaccacc atttcctttg cctttgccgt 240

tgcctgtacc gtcgaatcag aagcttagaa gtgaggaaga ggatttgaaa gatgttgagg 300

ctcttttgag taagaagtct tttaaggaga agcaacagtc taagacangt gangagttgc 360

ttgatctgat tcancgtcca accgctaaag aaaccgctac tgctgctaag tttaaaagca 420

aagganga 428

<210> 2620
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-C8

<400> 2620

ganagaatcg tctctctggt tcgttgagtc gtgagattag gaatctctca agtcttgttc 60

gtcttgatgt ttcttggaat ttgttttccg gtgaaatccc tgatgtgttc gacgaattgc 120

ctcagttaaa gtttttctta ggtcagacca atggattcat tggaggaata cctaaatcgt 180

tggcgaattc accgagtttg aatctgctta acttgaggaa caattcttta tcgggtcgtt 240

tgatgttgaa ttgtacggcg atgattgctt tgaactctct tgatttaggt accaatagat 300

tcaatgggag gttacctgag aatctaccgg attgcaagcg gttaaagaac gttaacctcg 360

cgaggaacac cttccatgga caagtaccan agagtttcaa gaacttcgag agcttatctt 420

acttctcgtt atcgaattcg ag 442

<210> 2621
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-C9

<400> 2621

ggctttctgc ttcttccttc ttcgtccttt gttttaattc tctcatatca cttacgaaaa 60

gaagaaagaa aaaaaacacc aaaactaaag agaaatttcg ttatcactct cttgccaaaa 120

ctcacataca tataatcata tatcatcgca aaatgtcttg cctagagatt tataacaaag 180

acacgatgaa gaagaaagaa ggagaagaag aaacaagaga tgggacagtg gattactatg 240

gtcgtccctc tattcgttct aactcaggcc aatgggttgc tggcatcgtc attcttctga 300

accaggggct ggctacacta gccttctttg gagttggagt gaacttggtg ctcttcctaa 360

ctcgcgtttt gcagcagaac aacgcagacg cagctaacaa cgttagcaaa tggacangga 420

ctgtttatat ccttctcaat ggntggagcg tttctcaagc gaatcgtant ggg 473

<210> 2622
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-D1

<400> 2622

gcccacgcgt ccgcccacgc gtccgaaagg agggaagaaa aaagttaggt tcgaaacgaa 60

agtaaactag ttaggtgaaa agcgaaacaa cacccacaga gcaatggccc ctgctctcgc 120

cgttacacga gatctcaccg ccgtcggatc tccggagaat gctcctgcga aaggacgtgc 180

ttcggtttac agtgaagttc aatcaagccg tattaacaac actcttcctt tgccttctgt 240

tctcaaagga gctttcaaaa tcgtcgaagg tcccgctagt tccgccgccg ggaatccaga 300

tgagatagcg aagttgtttc cgggtctata tggccagcca tcagtagcag tggttccaag 360

atnaggatgc accttcgtcg gcaccgaaat tgaagattgg tgttgttttg tctggangtc 420

angcacctgg tgggcacaat gttatttctg ga 452

<210> 2623
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-D10

<400> 2623

cgcggacgcg tggggttttc gagatcgtgg cggatcgtcc catcgctggt gataaacctg 60

tcggtgaggt tagcgttccg gtgaaggagc ttttggatca gaataaaggt gacgaggaga 120

aaacggttac ttacgccgtg aggttgccta acgggaaggc gaaaggatct ctcaaattct 180

cgttcaaatt tggggaaaag tatacttatg gatcttcgag tggtcctcac gcgccggtcc 240

cttcggctat ggatcataag actatggatc agcccgtcac cgcttacccg cccggacacg 300

gtgcaccgtc tgcataccct gctcctcccg cgggtccttc ttccggatat ccaccacaag 360

gacatgacna taancacgat ggtgtttaag gatacccgca acangctgga tatccaactg 420

gaancggtgg ttatccgcca actggtgcaa aaccan 456

<210> 2624
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-D2

<400> 2624

ggcatattga tcttcgccgg aggatatggc gatttcagaa gaagaagcca aactcgaaag 60

gttcctanat tggcttcagg tgaatggagg tgaattaaga ggctgcaaca tcaaatattc 120

tgactcccta aaaggatttg gcatattcgc ttccacctcc actcaagctt ccgatgaagt 180

tttgcttgtt gttccgcttg atctggccat tacccctatg agagttcttc aggaccctct 240

cctgggccct gagtgtcaga aaatgttcga acaaggacaa gttgatgacc gctttctcat 300

gattctgttc ctcactttgg agcgtcttcg tatcaattct tcttggaagc cgtatcttga 360

tatgcttcct actcgatttg gcatcctctt tggtttctga tgatgacatc cttgagctaa 420

aagggactaa cttgtatcac g 441

<210> 2625
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-D3

<400> 2625

tccgaaaatt cccnggtcga cccacgcgtc cgattgggtt tgggatcaag tgggcaaacc 60

aatatggatc cttctccgat cgctcaggga aatgacgatg acacaccggc gccggggaat 120

cagtttgccc aattcggagc tggatgtttc tggggtgtcg agctggcgtt tcagagagtc 180

ccaggggtga ctcagaccga ggctggatac acccaaggga ccgtagacaa tccttcatac 240

ggagatgttt gttctggtac cacaggccat tcggaggttg ttagggttca atatgatctt 300

aacgattgca cctatgagtc tctgcttgat ttgttctggt ctaagcatga tcccaccact 360

ttgaatcgcc agggaaatga cgtgggaacc caatacagat ctggaatata cttctacaca 420

cccgagcaag agaaactagc ccgtgagtca cttgaacgtc ancaacaaca aatggagaaa 480

<210> 2626
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E2-B8

<400> 2626

aaggacggta agacctttgt cgattgcttg cgcgatgcca acatcgtccc tggcatcaaa 60

gttgacaagg gcttgtctcc cctagccggt tccaacgaag agtcttggtg ccaaggcttg 120

gatggattgg cctcacgctc tgctgagtac tacaagcaag gcgctcgttt tgccaagtgg 180

aggacagtgg tgagtgttcc ctgcggtcct tcagcactgg ctgtnaagga agctgccttg 240

gggctggctc gctatgcaac catctctcaa gataatggtc ctgtccccaa ttgtggancc 300

aaaagattcc ttctgggacn gggaacaacc aatananaag actctggaag gtggcaaana 360

aagtgttgtc aaaagtgttc ctccnacttg gcaaaagaac aacgtcatgt tttgaaggga 420

attctgttna aacccaagca tggtcaac 448

<210> 2627
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-H6

<400> 2627

gctgatttac ggttaaaacg cctcttccct ctctccgacg cttctcgtcg gaaatctggg 60

tttaagtttc ttctgcagat cggaagagat tctattgaag cggcgttgac acgatttcat 120

ctataattgt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncgatcctg 180

cgccgcgaaa ccttccggtg atggaacgac gtcggacggg aacaaaaaag atgtggagga 240

agagaggaag gacggtgaag gaaagaggga agatagaaaa cgttggaaaa aattttatcc 300

naatcgttaa tgggaagcct tttgctccgg tttcaatggg anggaagccg aatgggctgc 360

ttataaggga agcaaggcgg gagattctga acaaagccgc ctgaaaattt tatcgggatc 420

tgggtgggaa agcggtgatg att 443

<210> 2628
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-H8

<400> 2628

ggacacacaa aaagacgaga ccgatcggcg atcagtagac ttaaccaaac tcgcggtgaa 60

acagtcggaa tccaccgcta taaggaacga tgatgatctc ccaattcttc gtcttatctc 120

agcgaggaga taacatcgtc ttccgtgact accgggctga ggtacccaaa ggaagtacag 180

agacattctt ccgtaaagtc aagttctgga aggaggatgg caatgcagag gcgccaccta 240

tctttaatgt cgatggcgtg aactacttcc atgtcaaggt tgttggtcta tattttgttg 300

cgacaacgag agttaacgtg tcaacctctc ctgttttgga gcttctacaa aggantgctc 360

gtgttaataa agattancct gggggttcng aatgaanatt caatcaagga aaaaactttg 420

ggcccn 426

<210> 2629
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-A1

<400> 2629

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tcgtgttcgt aagcaaaaat ggtttgggag aaagagaaga tcgtcggaag ttgtatagtc 120

ggaggagctg cgttcgccgt cggagcttct ttccttcatc ttttccttaa aggtgagctt 180

ccgttaggat taggtttagg tttgtcttgt ccatggcgca ttttgagaaa acgaaaacct 240

gttcgcgttt acatggatgg ttgcttcgat atgatgcact atggccactg caacgctctt 300

cgtcaagctc gtgctctcgg tgaccaattg gtcgtcggtg ttgtttccga cgaagaaatt 360

atagccaaca aaggactcct gttacccccc ttcatgaaag aatgacaatg gggaaagccg 420

tnaaattggg tggatgaaat tanaaccgga tgcnccttaa gcnaataacg gaaatttcat 480

gaagaaattg ttccatgagt tccaa 505

<210> 2630
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-A2

<400> 2630

gaaaaacaaa aaactagctc atcgtcgtca tgtcgtctct gtctcctcca ccgattccaa 60

tggaactcca cgccggtaac cggaaaaagt tactagaatc aatacgccgt cagttatcta 120

gttccaatcg ttctctcgat ggatttgttc ttctacaggg tggcgaggag aaaaatcgat 180

actgtactga tcacaccgag ctcttcaggc aagagagtta ttttgcttac ttgtttggag 240

tcagagagcc agatttctat ggagctattg acattggaag tgggaaatct atccttttta 300

ttccaaggtt gcctgatgat tatgctgttt ggttgggaga agattaagcc attgccgcat 360

tttaaggaaa catatatngt tgacatggtt tccaagttgg atgagataat caagtcttta 420

atggaacaat ttaagggatt gggaaagccc ccggttgaac cccttgcaan ggccttaaaa 480

acngacagca antaacttcc caaaaacctg gcaacttt 518

<210> 2631
<211> 529
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-A4

<400> 2631

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tttcgtccct tcactgccat acgtgtcgat aaagatggcg gctatggcgg cgaagcttca 120

gttatcggcg aaatctgatc anagcagtgt gcgattaccg agagtgatca acctctcccg 180

cgatccaacg actagagtct cgtttccgcg aaatggatca gtttgttccc tccacaccaa 240

tttctcttct ccacatctcg cgaaaccttg cgccggaggt ggtggtggtg gaagcaccgg 300

taataacggc ggcggaaacg gaaagcggag gaagaagtgg tgggtttgga nggtcaaggg 360

gggtgaagca aagtnaaaga atccatcctc caatggggaa caantanggg ttaatcaacc 420

aaagggatgg gggatttang angtttgcaa cctgattcct caatttccct ttttaaaggg 480

tacnaaatgg gaagagattg tnagggacnt aacccccttgg ngttccccg 529

<210> 2632
<211> 561
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-A5

<400> 2632

tgttttactg cccccgtagc ggtaanaaat tcccgggtcg acccacgcgt ccgccggttt 60

ttaagcaaat aagggtatat gagtttgttg gacatgggtg gagatatgat ggaagatgat 120

tgggaatttg cgtcatcatc aaaccctaaa agaaccctag ttcttgtggg ccgtactgga 180

aacggaaaga gtgcgacagg taacagtatc cttgggagga aagcttttag gtcaagagct 240

agaactgtag gagtgacaag cacgtgcgag tcacagagag ttgttcaaga agatggtgat 300

atcattaatg ttgttgatac tcctggtttg tttgatttgt ctactgcagc tgattttatt 360

ggtaaagaga ttgtgaggtg tataagtttg gcagaagatg ggattcatgc gatcttgttg 420

gnattctctg tgaggcggct tgctgaagan gagcaaactg tgcttagttt ctgcaagcgc 480

taatccggca antangatcc ctgactaata tgattngttg gtttttaccg gtggcnaaan 540

aagttggaag aanaattgag g 561

<210> 2633
<211> 504
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-A6

<400> 2633

gatccttacg tggaatgtac atanganctc accangtcat acccttggtt acagctantc 60

aacccagcac aanccttttgg cgatattgtt attgattatc cttacgtgga atgtncatca 120

gctgctatcc aagctttgat atcatttcga aagctgtatc ctgctcatcg aancaaggaa 180

gtaaatnagt gcattgagaa ggnggttaag ttcattgaat ccattcangc agcanntggn 240

tcatggnatg gatcatgggc tgtttgcttc acgtatggta cgtggtttgg agtgaaaggg 300

ctggtanctg ttggaaaaac attgaagnac tctccacatg ttgctaaagc ttgttaattt 360

ctattgtcga aacaacaanc ttcgggcggc tggggagaaa gctatcattc atgtnnagac 420

anggtcctaa tcaaaccttg atggnaacan cttncacgtc gtgaatacag caaagggcta 480

agctccactc catggngcct ggga 504

<210> 2634
<211> 564
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-B1

<400> 2634

tncctggccc gcagcggtcc gnaaatcccg ggggcgacca acgccgtccg ctcgactctg 60

ttccaagaaa ttcctctact taatacagct gattctacag attcctgcta cgaaatttct 120

gggtctgggt tgatctttgt ctcaccaagt caacccaatt caggactttg ataaaggtgg 180

aaatggcggc tttattagct tctcagagct gctgctatgg cggtgagacc gcaagagtca 240

ccaaagctat tggtttcagt agctctttgg agaatcattt cactggggaa gccactcagt 300

gttatggcag caagtctaag agatttcgta ttgagatgag acagtcggaa ttgccctcta 360

aggttggaat caatggacgt tcagtcaaaa tggttcctgc gagtgangtg gtgaaganga 420

aagatggtgt gaatggatcg gctggggaaa aggtgttaat ggancaagtt tgggtantan 480

taagaaacat taaagggtgc cggcgtcaac tttgggttaa ggnancaaan gaaaacaaca 540

agaatccgta ccttccccca accg 564

<210> 2635
<211> 528
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-B3

<400> 2635

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aaaatctttt taatgaaaaa agagcagaca ggacgagaat tcgcttttct gaatccttta 120

gagtattgtt ttctccgtcg aattcgcatg aacacttgag ctcaacaaga cggcgtggaa 180

gtggacggtg aggtagtttt ttttagtttt tgaaagacat ggcgcaaaac gggtacttgg 240

ttccagcgga tccttcggcg gttgtgacgg tgaagaagaa aacgccacaa gcgtcgtggg 300

ctcttattga cgcgacggga cagagtgagc cactcgatgt tgataagtat gagatnatgc 360

accgtgtcca agattcacgc tcgcgatccc cggattctag accccaattt aaccntaacc 420

cttncaacta atccttgggc cganaagaaa agccaattgg ttcccaaant ttgggnncat 480

aatccaaagg gctaattaan caactttncc gaaaaaaggg tttttgcc 528

<210> 2636
<211> 526
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-B4

<400> 2636

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnttatg acgtattcgt 180

cgtctctttc ggtgcctcct tctgctcctc agtctcctaa ttactccggt ggtctccgat 240

cacagtcttc tgtcttcgtt gagcaagaga agtatctttc agagttactt gcagagcgtc 300

ataagcttac tccattcctg cctgtgcttc cacatgcatt tcggctacta aaaccaaaga 360

aattttgccg tgtaaccaac actgttggga gaaatgctaa caagttttaa agtcaaaaat 420

tgggccttta accaacccta acccctcctg gncttctggg agggaaaatt tcanaaangg 480

caagaanctn ganataaatg gaatggggcc tcccaanttt ccaaca 526

<210> 2637
<211> 534
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-B5

<400> 2637

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ttgcttcgtg tgcgatcgcg agaacaaggg aaaattaggg tttatatcct caagcttttt 120

cgaacaccat tgatcgttga tctaagattt ttcttctagt cgagtttctt aaggggcttt 180

gatcaaactc aaaattgaag accaatactt tgaaggattc tggtaaagct aagcaactat 240

gagttcaaat tcatgggctg atgtttctga atcagagagg gcaccatctg gtggtggttg 300

gggttattct cgtccgtctc gaaccaacta tgttcctcca catcttagga gccgtacacc 360

atcttcggag tttgttgctc cttcacctgg taataatgat cgtgggggat atggtggtgc 420

aaatagtggg ttatgggtgg tcgangccaa aggttatggg tgggccgaag gttccgggct 480

atggtgggta gaaggaaggt cctgttggcc nggttgggaa tgccaagaan ttgg 534

<210> 2638
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-033-Q1-E1-B6

<400> 2638

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gttaaaaagc ttttagctcc agatctgtgg aaccgccata gctatggagt tttatagaag 120

ttctagaaga ttacaaattc ttggatctgt gattcttctg ctctctattc atgtcgctca 180

ctctttttac cttcctggtg ttgctcctca ggatttcgaa aagggagatg aattgaaagt 240

gaaagtaaac aagttgacat ctataaagac tcagcttcca tattcgtatt actctcttcc 300

tttttgtcgt cctaagaaga ttgtggacag tactgagaat ccttgggtga agttcttcgt 360

ggtgaccgan tcnaaaaatg ctccttaatt ccgtttaaaa tgcttgaggc gcaaatgtgt 420

aangttcncg gtcgtgttat gcctgatgca aagtctggcc aaagggttaa agagaanatg 480

gagatgantt tcgagttaac agatccttgn 510

<210> 2639
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-H3

<400> 2639

ggcaccnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngtgtgg 60

agaattcttt cttctcaata aacaacaaca tgtcgtcgag caatgaaaat gctaaggcac 120

aagcgccgga gaaatctgac tttacccgga gatgtagttt gctcagccgt tacttgaagg 180

agaagggtag tttcggaaac attgatcttg gcttataccg aaaacccgat tccagtctcg 240

cgttgcccgg aaaattcgat ccaccaggta cttttattat ctctttcttc tttcatggcc 300

gccacttggt aatagtactt taaaaactca gttctgttac tacttgcttt tgccagattt 360

actacttttg tattgtttcc tcaattgtaa gtcaattccc tacttcaaaa ataaattccc 420

ctgng 425

<210> 2640
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-F1

<400> 2640

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gagataatga agcggttaag gtggatttcg atgacaagct tagttgggag tatctattca 120

aggtatattg gctttgcctg aaggaagagc tgtctctaac tgttgatgag cttactagag 180

caaataatcc ttggaaggag gttcctaaca ctgctcccaa agtggagtca caaaatgatc 240

ataccaataa cagagcttta gatgtagcag taaatggaac aaaaagaaga aggaccagtg 300

attcccctac cttacccaac aagttggatg gcaaaaatcc aagtaatatc ctaaagaagg 360

ctcctggaga tacgaactgg gcaacaaaaa gaactcctcn agtttgtgt 409

<210> 2641
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-032-Q1-E1-F10

<400> 2641

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tctccggtgg tgagcaaaga tgttgtgggt cgacaagtac aggccgaaat cactcgacaa 120

ggtcatagtt catgaagata tcgcccaaaa actcaagaaa ttggtttccg agcaagattg 180

tccacatttg ctcttttatg ggccgtcagg ttctggtaag aaaaccctaa ttatggctct 240

tctcaagcag atatatgggg ccagtgcaga gaaggtgaaa gtggagaaca gggcatggaa 300

agttgatgct gggagttaga actattgatc tggagctcac tacattatca agcacaatca 360

gtggaactta cccaagttga tccaggcttt caggacagta taatggtcag gagataatta 420

aaggaatggg ca 432

<210> 2642
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-032-Q1-E1-F11

<400> 2642

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gatgccagca acggaatatc aaagatcatt cgggaggtct tttctgaatt tacggcgaga 120

cacggcggtg aactcggttg agtcaacgac ggttaccccc gagttgactc agatggaagc 180

agagcttgtt tcgtttcaga gaaaagttgc tgagaggttt atcgatctca atgcgtctag 240

ttgtgaagat ctactgtctc tcgaatgggt tgggaagctt cttgattcgt ttctatcttg 300

tcaagaagag tttcgttcca tagtcatcaa tcatcgttcg atgattacta aaccaccgat 360

ggatcgattg gttcagatta cttcgagaga agtgttaaag ctcttgatgt tgtaacgcca 420

atcgtgatgg 430

<210> 2643
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-F3

<400> 2643

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ttcggtcttc ttcaattttc accgacacaa acccgtcttt tcctcttctc tctcatttct 120

atcaattttt ctctacaatt ccccagtcgt cgaagaagct acagcttgca atttgctcgt 180

gttctcttcc atcattcctt tgttaagagc ctcttcatgg cttctacggt tgattccaat 240

ttcttctcat ccgtcccagc tcttcacagt aacctcggac ttttgtctcc tgatcagatc 300

gaactggcga agatcttatt agaaaatggt cagagtcatc tcttccaaca atgggcctga 360

actcggtgtt gatgataaag agaagctagc ttttttcgat nagattgctc gctaaaatca 420

agct 424

<210> 2644
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-F4

<400> 2644

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tgtgattgtg attgtgattg tgattgtgat tgtgagggaa ttatggctca agccgtagaa 120

gagtggtaca agcagatgcc gattataacc cggtcgtatc tcacggcggc tgtagtcacc 180

accgtcgggt gttcgctcga gattatatct ccttataatc tctacctaaa tcctaccctt 240

gtggtgaagc aataccagtt ctggcgtctt gtcacaaatt tcctttattt ccgaaagatg 300

gatttggact ttttgttcca tatgtttttt ctagctcgat actgcaaact gctcgaanaa 360

aactccttca aggggaaaga ccgcngattt cccttanatg cccctaatcg ggggaant 418

<210> 2645
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-F9

<400> 2645

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acgacccttt atccttcacc agcaatccat ctacggcgtc gtctccagtc actgtatctg 120

actatctcga caactttctc ggcgaaccca cttctcgctc cggtagtttt caaagcgaga 180

gcttactcgg tggaggcggt ggagaaagca tcaacgacgc tgattttgga ttcgctcgtc 240

ctgatttccg atcggaacaa ctagctggaa ccgtacagtt ttacgagagg catgtcttct 300

tgtgctacaa aaagccatct gtttggccgc aaggatcgag gctgctgagt tcgattgatt 360

gcctangcta ctctctgctg ctgtatcggg caaaaagggt aacatgaaga angagactcg 420

actcacaa 428

<210> 2646
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-G10

<400> 2646

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atcaaagcaa tggagcagaa cttgatgatt acacacagtt tggtgtaaat ttgcagactg 120

atcaagagga tacctttcca gattttgtgt catatggtgt gaatttgcag caggagccag 180

atgaagtctt tagtattgga gcttctcaat tggatttgtc ctcgtataat ggagttttgt 240

cgctagagcc agaacaggtg gggcaacaag attgnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncna 360

ttgctccaga aagcgggcaa ggactggntc ntgtancaga ggaggaggaa ctaaanctgt 420

cgtga 425

<210> 2647
<211> 229
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-G3

<400> 2647

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ctcagtgatg ggaagttttg taggtttgtg tggttttaac ttaatgataa ggtgtttgtt 120

tgtagtagta gtctccatgt aactanatgg gggaaaagta tgtgtgactt taagtttctt 180

aaaagctcaa agaaacttta nccccttaaaa aaaannanaa aaaagggcg 229

<210> 2648
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-G5

<400> 2648

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gggagtcaac ggtgatctag tcaccatatc atggatggcg tcgaagggag ctaaccaaac 120

ggagcactat ctcaaagaag aagtaggagg aaccgttttt ttcgccttcc gagcatcttt 180

ctcgtcggaa gatttgttcg ctacggagaa tacatctccc tttggagaaa taaagatgaa 240

ncgtaatcaa tttccttgta tgagaagcat cggcaacgac gttgacacta ctgttaacga 300

agctttcctc aagtcacttg aagttctcat tggtccaaga acctcatttc atgcttctgt 360

gcaaaacgcg gttgatagaa aacaacaagt tgtgttcaca aggacattcc ttccgaggcg 420

caa 423

<210> 2649
<211> 468
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-G6

<400> 2649

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acttcaccgt gaagaagctg atcaagaaga ggaaaggact gacgccgcgc gagaagacgg 120

cgcttcatga ctgtttggag actattgatg agacgctgga cgagctccat gaaacggtgg 180

aagatctcca tttgtatcca accaaaaaaa ctctccggga acacgccgga gatctcaaaa 240

cactaattag ctccgccatt accaaccagg agacttgtct cgacggcttc tctcatgacg 300

acgccgataa gcaagttcgt aaagccttgt tgaaggggca gatacacgta gagcacatgt 360

gcagcaacgc tctagcaatg atcaagaaca tgactgatac tgacatagcc aacttcgagc 420

aaaaagctaa aataacctca aacaancgtt agctcaaggn ggagaatc 468

<210> 2650
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-G7

<400> 2650

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gacagtctac tgagtggaca atacaagttg atccgaaatt ccatgaaggt gcaagtaatt 120

taaaggaact tgtccctttc gaggaatgtc ttgagttgca ctccacagat gaaggagttg 180

tacgggttcc tgactatctc cttctcacta ataatggacg tggcttcaac gttgttgtgg 240

atcccacaaa tcttggggat ggtgtgcatt actttgaagt ttatgggatt gattgcaaag 300

caccagancg tggtcccctt ttcagaatcc cantnacaat aataattccc aaagactgtt 360

ggcaaatcaa cctccagtta attcaatttc ancaaatgtc ttcatctcaa ggcan 415

<210> 2651
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-G8

<400> 2651

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caagaaccct agaattcgcc tcctctttcc aaaattccca atttttgtaa tgacgggata 120

gaaaaattcc caatgtccgc tttatctttc attctcgatt agaattcttc aaccaaaggt 180

cactctctct ccgttccatt gcttctggat ttcgttttta agggttttac atttttcctg 240

ccttctttta cccatcagag gaagtttcaa gccatttgt taatcagctc tctcataagc 300

taagatgtcg tcatcgcctt ttccagtctt ggacaaccga ccaattgata agtggaaggt 360

tacggaattg aaagaagagc ttaaaagacg gagactaaca acaagaggct tgaagggagg 420

aattggttag gcgtcttgat gaagcacttc gtgctgagca agaagaatct gaaan 475

<210> 2652
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-G9

<400> 2652

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atgtagctga tggaatcatt cctgtaactg atcctacctc taatctatct gtttcctctt 120

acacttcttt tctcactttg gatcactgag taactctcac atgttgtaca ggaaccgctt 180

ggaggggccc atgccgatcc ttcatggacg tcgcagcaaa taaagattgc tatcaatgaa 240

aacatgaatg taggcatagt tgttcttctc aacgctggat gtggatctaa aagagttcta 300

actttttttt gggaacttgt aggaattcgg aaaaatgagt ggggaggagc tcctgaaaca 360

caggatggct aaagtaccga aagattggag tgttcataga nggcgaanca atnagagcca 420

agttaggaaa atcaac 436

<210> 2653
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-H11

<400> 2653

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gttttgntct cactttcacc agtgaccgga gaatcaccta aaatttcacg gcgccgggtg 120

attttagcca naagtatagg atctcctcag cctttacttg angcanagat caaggaacct 180

canaancttc aagtccttga ttccaaagat gtttccagaa gaaacactat gctgtatcta 240

gctgctggat ttcttggagg gatcaacttt ctcaatggtg aagccgcaga agctcgagta 300

gggagaaagg gagancagaa nganagcatt ggagaagctg atggccaaag ctaaagagtc 360

anagcccaac aacaagtcag gtanccaaaa agatagagaa agagttagag aaagaagaan 420

tgtttcctct acttcct 437

<210> 2654
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-H2

<400> 2654

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agagaaggca tggccgcgga agaagcgacg gagttctacc tgagatacta tgtcggtcac 120

aaagggaaat ttggacacga gttcctggag ttcgagttta gagaggacgg taagctccgt 180

tacgccaata actctaacta caagaacgat actattatcc gcaaggaggt atttctcacc 240

cccgccgtgc tcaaggaatg caagcgtatc gtctccgaga gcgagattct gaaagaagac 300

gataacaatt ggccggaacc tgaccgtgtt ggaaagcaag agctcgagat cgtcttgggt 360

aatgagcata tctcattcgc tacatctaag attgggatct cntgttgatt gccaaagcag 420

taatgattct gaaaggactt cgcatccntc naataaccct gttaaggngc tt 472

<210> 2655
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-E7

<400> 2655

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ctttatctga atttgaccat tttctcttca tttctccgac taatttccct tcatttcgat 120

ctttaagcat ctgggtatct ccctttctcc atctattcat cggaatttgc gcttagattt 180

tgaatatttt gaagcttttt ttgggataga ggagattgaa aatggggaaa tctggaggaa 240

ggaagaagaa gagtggtggt tcgaattcga attcgagtca agtcaattca tctgaaactt 300

caggattatc caaaccgtca acgattgtta atggtggtgt tgattcgtgc ttcgatattc 360

ctgaaacgtg cacatgagct taagggaaga aggnaataaa aaagttcaaa gcaag 415

<210> 2656
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-D10

<400> 2656

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ggacattctc atttttatga ccgggcaaga tgagattgag gcagcgtgct tttcactaaa 120

ggagagaatg gaacagctcg tatcatcttc cagtagagaa ataacgaacc tactcattct 180

cccaatatac tctcagttac ctgctgactt gcaagcaaag atattccaga aaccagaaga 240

tggagcccgt aaatgcattg ttgccaccaa tattgctgaa acatcattga cagtcgatgg 300

aatatattat gtgattgaca ctgggtatgg gaaagatgaa gggtttcaat ccctaagaat 360

ggggtangga tgccccttca aagttttccc cataaagtcc gtgcaancct cctgatta 418

<210> 2657
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-D11

<400> 2657

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gtcgaaaaat ccaaccggag atcaaatggc actgccgtcg atctcatcaa tcggcgcgac 120

gttctcactc ctaatctatt tatctcttcc ttattcaatc acagctggtg aaaacaacct 180

cctccaccaa tctccaaccg ctagatcacg acgtcccatg gtgttcccat tgttcctctc 240

tcaaccaaat tcttcttcga gatccatatc aatcccacat cgaaaactcc acaaatccga 300

ctcaaaatca cttcctcact ctcgcatgag actctacgac gatcttctta ttaatggggt 360

attacactac gaggctttgg attgggtaca caacacaaat gtttgctcnt aaagttgatt 420

ctggtaagta ctgg 434

<210> 2658
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-D2

<400> 2658

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aggattcagt gacccagtct atgctgaagc atatgtgacg gtacaccatt atgatattgc 120

tcttgaagtt acagtaatca accgaaccaa ggaaaccctt cagaacttgt gcttggagtt 180

agcaaccatg ggtgatctca aacttgttga gcgtcctcag aactacagtc tggcacctga 240

aagaagcatg cagattaaag caaacatcaa ggtgtcgtcc acagagacgg gagtcatatt 300

cgggaacatc gtctatgaga catcaaatgt aatggagcga aacgtcgttg ttcttaatga 360

catacacatt gatatcatgg gactatatct cccctgctgt gtgttcaaaa ggtgcttnaa 420

aaaa 424

<210> 2659
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-D7

<400> 2659

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cagatctgat gaagacatgt ttgaagcgat tggtaatgcg atgtcgaaaa ggttactctg 120

tgataatgct ctagtctttg catgcacagt tgggcaaaag ccaagcaagg ctaaatacta 180

cttggacgat actactgaag tgacatgcat gcttgaatct ctagctgaag catcagaggc 240

ttcaaacttt tctatgcgtg aacttgatga agccctttga tttggaacca gatcttttgc 300

cagatggcta aagaagaggt tagacagaca aagacaagga atagaaagag actggggaat 360

tttgttggtc tgtatgtgtt tgtcagattt gaaaagaaag aaaagaanaa a 411

<210> 2660
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-D8

<400> 2660

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tattcaaacc catttgaaaa atccggtggt gaatcgccgg agaaatgtgt ttttcgtttc 180

tccactgagt tttttttgtt aagaaatctg ttaaaactct agatttcaaa cgaatgacat 240

tttctgagat tgaggaacat tgtgaatcga ggactggagt gaagattctc tgatgagtga 300

ttcnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnntc tgcgtttcgg tgaagaagta n 401

<210> 2661
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-032-Q1-E1-D9

<400> 2661

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gagcggtcat gattctaaat atttttcgac tacgaagaag ggagagatcc ctgagctcaa 120

ggaagagctg aattcacagt acaaggataa gaggaaagat gctgttaaga aggttattgc 180

ggcaatgact gttggaaagg atgtttcatc acttttcact gatgtagtca attgcatgca 240

aactgagaat ctggagttga agaagcttgt ttacttgtat ctgataaact atgcaaaaag 300

ccagccagat cttgctatcc tcgctgtaaa tacttttgtt aaggattcac aagacccaaa 360

tccattgatc cgggctttgg ctgttccgaa catgggctgt atccgtgttg ataagattac 420

agaataattg gggtgatcc 439

<210> 2662
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-E1

<400> 2662

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tcttccaaca gtggacatac cttgagagat gaagatcgtt cgcagggatt ttgttcgtaa 180

tggacccgga agcgttaaga tggtggcaga ggactctgat gatctctggt atgcttataa 240

cttgattgct gtgggcgata gtgtaatggc tgtcactttc agaaaagttc agagagagat 300

acctggtggg ggaagagact ctgaacgtgt taaactgaag ctggaagtac aagttgagga 360

agtggactat gacaaanacg gatntgtttt gcgcatacgt ggnaaaaata acctg 415

<210> 2663
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-E10

<400> 2663

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tttggccttt gggtttgctt tgccttttat ctccacaata ataatattcg ttaacctctc 120

ctcgttctcg tcgctgtttc ttcccgatct ttgctatagt tctggattca aaatctttct 180

tccccaatag atgtttgtct cttaattttt gatttttctg caaaatcaaa tttttaagag 240

ctatggagga agagaatgtt actagttcac cttcaacacc ggtacatagg cttaggcatc 300

gaagacgttc taatgaggtt gttacggatg gggataaagt gaaatgcaag ttcctttgtt 360

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ggatgaattg gggggttt 438

<210> 2664
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-E11

<400> 2664

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ggggtaattc ggcagctctc ttttgtatca atgagaaagg tcttgacttt gagcttgtct 120

tcgtagattg gcttgctggt gaagccaaaa ccaaaacttt tctctctact ctcaacccat 180

ttggtgaagt cccggttctt gaagatggag atctcaaact tttcgaacca aaggcgatca 240

cgcgatacct agccgagcaa tacaaagacg ttggaacaaa tctattacca gatgatccca 300

aaaagagagc aatcatgtcg atgtggatgg aagtagatag caatcaattt cttcccatan 360

catcaacact catcaaagaa ctcatcatca atccatatca aaggttaacc acagacgata 420

caacaagttc aaggaagaac 440

<210> 2665
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-E12

<400> 2665

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gacctctgat atgtccacaa gtccaaatga gcttatatta cttgtaaggt ttgtgcaaac 120

acttctatca gaccgatcgt cggaaagaaa aagtaactta gagtctggca atgataagct 180

gttgacgaaa ctgaaagctg atgatgatca atggagacat gtcataggaa cgatcataga 240

tggcagtgca tcatcaacaa gtacagttga ttggcttcta caggaactgc ttaaagacaa 300

gctggataca tggctgtctt caagatcatg tgatgaagat tacataacgt gttctttgtc 360

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t 421

<210> 2666
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-E2

<400> 2666

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gggtgaagcc gtagaggtca tgttcggaaa tgggttcccg gagattcaca aagccacatc 120

acccactcaa accctccact ctaaccagca agactgccat tggtatgaag aaaccatcga 180

tgatgatctc aagtggtctt ttgccctcaa cagtgttctc catcaaggaa ctagtgagta 240

ccaagatatt gctctgttgg acaccaaacg ttttggaaag gtgcttgtga ttgatgggaa 300

aatgcaaagt gctgagagag atgagtttat ctaccaatga atgtttgatt caacccgctc 360

tccttttcca atccaaagtt atgcacttaa tttacntcac ttacaaataa aattttgg 418

<210> 2667
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-E3

<400> 2667

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aaaacgttgg aggaggacac tcagacagga acaatgattg ttcagtggag aaaaaagttt 120

ccttttttttc tgtagtgacc gagagtatat cattggccgg agaatatggg agtctgggaa 180

gaagtattat tgtgtcacaa agggagttcc ttatccagct ctaccaaagc gtgataagcc 240

aaggcgtgtt gagctttatt tctcaagttg ggttatcana ncggttgaat cccgaaaagg 300

agatggacag caaacggctt gtgaagtttc ccttgtccac tacgaaagac atggggcatc 360

ccaaaagacg tagcaanagt taggtgtccg tcatggcatg tngggaactg tcaanaagct 420

aaactccg 428

<210> 2668
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-E4

<400> 2668

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atcagaaagc tgttgtagca gccaaagaga ctctggattc ttctttgtca ttgcttctca 180

gacaagacaa cccctggatg acatttctcg aagaccatgt attcgaatca gaagaatatt 240

tattccttga attgcatgca actgcgatgc tctgtttgcc ttctggtgaa tgtctgcgcc 300

cagatgccac tgtttgtgct gcactaatga gtgcacttta ctcttctgtc agtgaggaag 360

ttgttttaga tcccagttaa tgggtaaatg tatccatttc gtcaaaggga na 412

<210> 2669
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-E5

<400> 2669

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gctgcttttg ctcctgacca tcgtcgcctc tccancaaat gcagatggac ctgtttgccc 120

gccgtcgaac aaactaagcc gggcaagttt ccctgaaggt tttttatttg gcacggctac 180

tgcggcatac caggtcaaan gtgcgattaa tgaaacttgt cgtggaccag ccttatggga 240

catctactgt agaanatatc cagagangtg caataacnat aacggcgatg tggccgttga 300

attcttccaa cgttataang aanatatcca actaatgaaa aatccaaaac acangacgcc 360

cttanaaatg tctaatcgca agggccaaag aataatttcc tcaatgggaa aaaaagggga 420

aaang 425

<210> 2670
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-E6

<400> 2670

ataatttgtt gacgaccaaa agtaattaaa cacattacac atggggaaaa agaacggctc 60

ttcttcttgg ctcaccgctg taaagcgagc tttccgatct ccgacgaaga aagatcatag 120

taatgacgtc gaagaagatg aagaaaagaa gagagagaag agacggtggt ttagaaaacc 180

ggcgactcaa gaatctccgg tgaagtcttc cggtatctct ccaccagcac ctcaggaaga 240

ttcacttaac gtaaactcaa aaccctctcc ggagacagca ccgagttacg caactacgac 300

gccgccatcc aacgccggta aacccccgtc cgccgtagtc cccatcgcca cgtcagcatc 360

taagacactc gcaccgangc ggtttattac gcaagagaaa attacgctgn t 411

<210> 2671
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-D1

<400> 2671

gcaaaacaca tactaattgt ttctccttct ccttcttcct tgcaaatgga tactttagct 60

tcaaactctt cggatctcac gaccaagtca agtctcggaa tgtcgtcgtt taccaacatg 120

tatctcctca caacgcttca agcccttgcg gccctttgct tcttgatgat tctcaacaaa 180

ataaagtcat cttcacgaaa caagaagttg catcctctcc cgccaggacc caccggtttt 240

ccaattgttg gaatgattcc ggcgatgctt aaaaaccgtc agttttccg gtggctccac 300

agcctcatga aggagcttaa cacggagata gcttgtgtgc gtctaagaaa cactcacgtg 360

attcctgtga catgtcctaa gattgcacgt gagatnntca agcaacaaga cgcatccttg 420

ggtn 424

<210> 2672
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-G6

<400> 2672

atcttctngg tggctccgta ccgnnctgga aattantnng nccggtcgac gagactcant 60

agtcggcggc cgccctttt ttttttttt ggagttagaa tgctatgaat tccaaaccag 120

agaagattca aataaaacag agactaaaaa ggctgttcaa acagtagtaa ttcttgcaca 180

tgaacactaa accagaacga taacaggaaa caaagataca gtcagtactc agtagtttga 240

gggcacctac ggaaagcaag taatactaca gagggtagac gttccagtgc ttaatgatga 300

aacatcatca gtacaagcaa acgtgttttt catcatacac cgtatcactt tcacaagtgg 360

ctgcagtcat tccgcaacat aanggagatt gacntcgaga agcagcatca actttgcgca 420

aagggacaag ggtaccaaga gatggggaac tcncattgna annccttca ngggaaatcc 480

ccttaaaang gggagg 496

<210> 2673
<211> 532
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-H10

<400> 2673

nctggtttac tggtctctac cggncccgga aatcccgaaa tcgacccacg ngnccgattg 60

cctgatttct tcttgggaga tcagttaact agccaggttc aagcgattcg aagcatcgag 120

ttctatatat gttactatgg ttggggagac ttcagacaca gaaaaagcac ttgcaaagaa 180

tctgatgtct acaacacttt cttcttcatt gttgctgtca tcccttatgt ctctcgcctc 240

cttcagtgcc tgcgacggct gtttgaggaa aaaaacccgg aacaagggta caacggactc 300

aagtatttct tgactatagt ggcggtttgc ttgagaacgg cttacagtat ccaaaaaggt 360

caagtcgctt gggaggggtt taactggctg tcctcccaat tatagctgca atattcctgg 420

tcttactggg gacttgtcca aggattgggg gccttcnaaa ccgggcatcc aaaaaccgtg 480

cttcnaagat aaactccctg gtcctcaaaa gaaagtntac ctcaaagcga tg 532

<210> 2674
<211> 527
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-H11

<400> 2674

gaactggttt gcctgttccc tacggccccg ganatcccga ngtcgaccca cgcgtccgga 60

tnaatcgact tgattttctc aaactggttg ctcatgtatc tctctgataa agaggtggaa 120

ctaatggcag agagaatgat tggatgggtc aagccagggg gatacatttt cttcagagaa 180

tcttgcttcc atcaatctgg ggacagcaag cgaaagtcaa accccactca ctaccgtgaa 240

cccagattct acacaaaggt tttccaggaa tgtcagacac gtgatgcttc tggc[illegible]a 300

tttgagcct[illegible]tatggttgg ctgcaaatgc attggggctt atgtgaagaa caagaagaat 360

cagnatcaga tttgctggga tatggcaaaa atcagcgtgg ngaatgacaa ggat[illegible]c 420

cgttccttgg acaatgttca aatacaatcc nattgggatt cttccnnaag aacgtgtcct 480

ttgggnaagn attgtnanca ctgggnggat tnggaacact aaagaat 527

<210> 2675
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-H12

<400> 2675

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gctcaacctg gcagctccag tgtcaatcct gggaccgtga aaggtactga tctagagggc 120

gaagttggtg aaacacaggc cgtggaaaaa gaaaaccttt tggttggtga agctcatcct 180

gctatccctc acggtcattc tccttcatct tcatcttctt catttaacat ggtcgacttc 240

ccaagcatgc ctgctgttga ggtcttgtct ggtggttctt catctactac aaaagacgtg 300

ccagttcctc ttcaggagga tatagaaaag aatgacgtgg agataaccat gctcaaagga 360

ctcnaggaaa tgggtttcaa aggagatana nttgaacaaa ggagatctna aggataacga 420

ntncaacctg gagcaatccg ttgatgcncc ttgtggantt ancgantggg atcaatccta 480

aagganctca ggagatgg 498

<210> 2676
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-H2

<400> 2676

tccaaatcct cagtttcatt ttcatctctc tctctcgtat tgatcagcta ctcgaaactc 60

cggtaacgga ttttcacaat cccggcggcg aaactcttct tcccggctaa gttttcattt 120

tcttcagatt cctcgtaaag ttgccggtgg accaaggtcc aactcttgaa caccccaaat 180

catgaatccc ttttcttctg gtactcgttt aagggacatg atccgtgcca taagagcatg 240

caaaacagct gcggaggagc gagctgttgt aagaaaggag tgtgccgata ttcgagcatt 300

gattaatgaa gatgacccgc atgatcggca ccggaacctt gcgaaactca tgtttataca 360

catgccnggg ttatcccaan acaactttgg ggcaanatgg aattgcttgn aagctaaatt 420

gaatcncccg gaatttcc 438

<210> 2677
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-H3

<400> 2677

gccacggtca cncataattc gccggtcgac gagctcanta atcggcggcc gccctttttt 60

ttttttttttg gagttagaat gctatgaatt ccaaaccaga gaagattcaa ataaaacaga 120

gactaaaaag gctgttcaaa cagtaataat tcttgcacat gaacactaaa ccagaacgat 180

aacaggaaac aaagatacag tcagtactca gtagtttgag ggcacctacg gaaagcaagt 240

aatactacag agggtagacg ttccagtgct taatgatgaa acatcatcag tacaagcaaa 300

cgtgtttttc atcatacacc gtatcacttt cacaagtggc tgcagtcatt ccgcancata 360

aggagattga cttcnagaan caacatcaac tttgcgcaaa aggagcaagg ctaacaagga 420

anatggggga cccccaattg cnacgccttc aaggagaact cnccttaaaa gggaaaggcc 480

tt 482

<210> 2678
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-H7

<400> 2678

ggagatttat acaacaaatc gacatagcaa caagcgagca tctcaaatct gtctccttcc 60

aaggcgttgt agacgtcaaa gatactagtg gaagagtata attaataaga cctaagtcca 120

tctagttgac gcgatcaaat gtctacctta atcacttttc ttttttgata aggtttatat 180

cttgtttttа ttaatgcagt tgatattgga acaaatgatc ctgatgatca taagtaacat 240

caaacctgag actaagagca aactgataga gagttttaga gatttcagct ttgatttggt 300

taggtcccct tttgatcctt ctttttggaa cgctctttac aatggtctta tggcacgcag 360

caatgtgatg aagatgctaa aaagaatgtt caaagagang agagaagaag caacatcgga 420

tgaccaaaat atgggg 436

<210> 2679
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-A1

<400> 2679

gaaactttga agcttcttac tttctttact tcacgatcct tcttttgcct aatttctcgg 60

tttcatttcc aaaattctct tttgattctt tcttactctt tcgctagaga agatttagac 120

tgggttttga gtatttctcg gaaattttcg tgtnnttttt ttctgggaaa gtttccgaga 180

tctcggtgga gtacgttttt tggcgacgaa ccagtatggt ttggtactca agctgtagaa 240

ttttgtttct gggtctgctt attttgttgg cttcganctg ggttttggat aaagccaagg 300

aatttggnaa atttgggttg gaattccaca atttccncgn ttaaaggtgg tngggntttg 360

gcnggagaaa gggttaacca anccnnattc ttccaaatan tataca 406

<210> 2680
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-A12

<400> 2680

gcataattgt ctcacccgag cttcctctcc agctagggtt tgtttgtttg attgaagaaa 60

gaaaacaaga atggtgtatt tcaatttcaa taggattaag angaanaaga ctctaattgg 120

atttggattg ggacagatcc tctcgcttct ctcgacttct cttagcttta catcgtctga 180

gatcgctatg aaaagatttt agctttttt ttttttcaa accatcccat ttttaaacat 240

tctcatgaac ttacaaaatt tgaaatcttt atagggatta atgctccaac atcacagtcg 300

tttctgggtt atntgttact ggnaatcgtc tatggaggta tcatgctcta tcgaacatng 360

gaattaaatg gtatcactat ctcctccttg cgtttgttga tgttgnggcn aactttctcg 420

tgggaaaggc tatcaga 437

<210> 2681
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-A5

<400> 2681

ggacagaagt ggagatcaaa gcttcggctg gacagtttca tcacatgttt gccgggaagc 60

cacaccatgt ctccaaagca agtccaggca acattcagag ctgtgatctg cacgaangcg 120

actggggcac tgtcggctct atcgtcttct ggaattacgt tcacgatggg gangcaaang 180

tggcgaagga gagaatcgag gcggtggagc cggagaagaa cttgatcacg tttaaggtta 240

tagaaggtga tctgatgaaa agagtacaaa gaacttttg atnacgattc aagtgacccc 300

taaacatggg aaggcctgga aattattgtg caatgggaac cttgagtnat ganaaaatca 360

acgacnangt tactcaaccc caaactcccc tccaattccg tgttgaagtc tcccaagana 420

ttcaacaaca tctccttatc ccaaggaana 450

<210> 2682
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-A6

<400> 2682

gggaacttag gtttcgcggt ttggataacc ggagacttgg tgatctcaag ccatccaacc 60

tcgaagagac tttcggatca tatgactcag cttctgtgat gcaacttcaa tcaccaagca 120

ggcattctca gatgaaccac tatccgtctt cacctgtgag gcagcctcct cctcatggat 180

tcgaatcttc agcagccatg gcagctgcag tgatgaatgc aagatcctca gcgtttgcga 240

aacgcagctt gagtttcaaa ccagctccag tagcttctaa tgtctccgat tggggatcac 300

caaatgggaa gcttgagtgg ggaatgcaaa gagatgagct gaacaagttg aggagaattg 360

cctcctncgg naatcaaggg aaccaacaac aacaagtgng ncagncctgg cnaaaaacnc 420

agtggacnaa ccaaaatgtt tccttggtna actcaccggg tgaaaa 466

<210> 2683
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-031-Q1-E1-A8

<400> 2683

gcctattaat cggtactgtg ttttcttctg tgatcgtgag attagaaaat ctacccaaat 60

ttttgatttt gcgataaggg tttttcttaa tttcgtctac ggatatagaa aatgtcttcc 120

atcaatttat cctcatcatc tccttccacc atctctcttt cncgctcang actaagccaa 180

agctctacta cantactcca tggactacat cgtgttactt taccatctaa ccatccattg 240

tcaacctttt ccattaacac caatactggg aaaaagttaa gggctgcaag tgatctctaa 300

aanaaagatt gatctggctc ncaattcaac aaacgggana caatnctcct cctcaaaaat 360

gggcccctca attgatgatn ngggncnnaa agaagccaat aanaaggcng aattnggttt 420

caacnttggn acaacgtggc aggctgaatc ctggctcccg ggnacaagcn aaatgggttt 480

tgttgccgaa anatta 496

<210> 2684
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-G4

<400> 2684

anaaaaatgg agtataggtt tcatatctct cgcttttctc ttcatcactt cctcttcagc 60

tgagttcatc attcaacagg tcacaaaggg cagaggaata gagtacaaca gttcttacag 120

tctcgaggag aatcttggag tgacaagaga gttgagagaa gagcgaccat cgagtaagat 180

agtgacaata acaagcttct cagtgattaa aggcagagga gaaccctatg aatcctctgt 240

ttttgaggct gctggttaca aatggagatt ggttttgtac gtgaatggta ataaaaacga 300

cggtggaaat gatcatattt ccctttacgc aaggatcgaa gagacaaact ctcttccatt 360

aggttgggaa attgaatgtt gatntcaaan tccttgtcca anaatgggga aac 413

<210> 2685
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-E11

<400> 2685

gcgtatcgaa aatcttcttc gggtcagacg atctgaagcc gatcgctgta gaatcagttt 60

cgtgctccgc agtttctcga gtttcctctc acttcagatc ttcataagag aattcactta 120

cggagaggga ctttttcgta gacgattctc actggatatc tatcacccgg taagatcgtc 180

ttgctcgaaa agaattgaaa agtttttaag taattgaata aggaactgtg aatcggagag 240

gcttactttt ttgaaaagat ctaaaccatc gtagaagatc gtcctcaaaa tatctcacaa 300

gaagttacca attttgaaaa gatnactaag agatagctac ggattttgag aaggcgggtt 360

ctggtccaan gtccggnact ggtgaaaagn agaactacac tgggtttttc caagatgata 420

tgaaancttc cgtngaacga atccgantcn aaggnactca tcnaagagaa tccggggatt 480

gtnttga 487

<210> 2686
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-E12

<400> 2686

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atcgtgtcaa attttagggt tttttctttt cgtacttcat caaattctgg aatctggttt 120

tttcttagtt ttcttctata tacctttgaa tcgcatcttt gatccaaatt cattttagat 180

atcaccttga agtcgaattt gtgatttttt cttttcctct cgaattctca aagtctcacg 240

caactatgaa agaagacatg gaagtactat cgctcgcttc actaccggtt gggttcagat 300

ttagtccaac ggacgaagag ttagtccggt actatctccg gctcaagatc aacggtcacg 360

ataacgacgt tagagtaatt cgtgagatcg aaaacctgaa aatggaancc tgggaatttg 420

ccgaattttc cggnggtgaa gacaacaaga nccnaaatgg gtcctccttt ggnccttggg 480

cccgggaata tccgnatggg aatccnaatg gaataaa 517

<210> 2687
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-E2

<400> 2687

agaagaaaaa aaatcatgga gatgaccgaa gcttccaaac agacaacagc agaaggatca 60

gcaaatccag aaccagacca aatcttgagt ccgagaagat cgttggagct aaaacaaaag 120

aaatggtgga tctctgtttc tttatgtatt ttcttagtct tgctcggaga ttctctagtc 180

atgcttctct tgaacttctt ctatgttcaa gacaatcgag aagatagtga ccaagatcta 240

caataccgag gaacatggtt gcaagctctg gtccaaaacg ctgcgtttcc actactcatt 300

cctctgtttt tcattttccc ttcaacaaaa caaaaccaan gaaaccacca atactcgttt 360

ctccccttt cgtccaatct tacttaaatc nccctggggg tcctgttgcc ggtcanagaa 420

a 421

<210> 2688
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-E7

<400> 2688

ccntcggtac cgaacacaaa ttcgcgggtc gacccacgcg tccagtgatg gaggcaataa 60

ggattagttg tgctggctat cctactagga aacattttga tgagttcttg gccagatttg 120

gtattcttgc tccagaagtg ttggtaaaga actctgatga ccctgctgct tgcaagaagc 180

ttctggacaa agtgggactc gaagggtatc agattggcaa gacgaaagtt tttctgcggg 240

ctggacaaat ggctgacttg gatacccgaa ggactgaggt cttgggaaga tcagcaagca 300

ttattcagag aaaagttcgg tcatatctcg ctaaaaagag tttcatcgtt ctgcgtaatt 360

ctgctaaaca gattcagtca gtttgcagag gttatctcgc tagaagtgta tatnaaaggc 420

atgcgttagg gaanctgctg ctttaaaatc cagagagact tgcgtaggtt tcnggct 477

<210> 2689
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-E9

<400> 2689

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ggtgagtttc tggtgaagaa tggggctctt cctgaggaaa ggattagagc tgttgaaaca 120

ggtggatgtc cacacgctgc tatccgtgaa gatatcagta tcaatttggg tcctcttgag 180

gagttatcta acttattcaa ggctgatttg cttctttgtg aatccggtgg agataattta 240

actgctaatt tcagtanaga actanctgac aatatcacca catcaaccga tgtatccggc 300

tgggtgataa aataccccgt aaaggcggcc ctggaatcac tcaagctgat cttccnggtg 360

ataaccaaga ctgaccttgc ancaactgtt ggggctgant nttcggccnn ggnaagggnt 420

tcctngncnt nctttntggg gggccatttt ccttngccca gggttaacca tgggt 475

<210> 2690
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-F1

<400> 2690

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gatggccttt ttcctgccaa gaagaccaaa tccggagccg tttgtcaggt cgaaaactgt 120

gaagctgatc ttagtaaagt taaggattat catagacgcc ataaggtctg tgagatgcat 180

tccaaggcta ctagtgccac tgtcggaggt atcttgcagc gcttttgtca gcaatgtant 240

aggttccatc ttcttcagga gtttgatgaa ggaaagagaa gttgtcgtag acgtttggct 300

ggccataata aacgtcggag gaaaacaaat cccgaacctg gcgctaacgg gaatcctagt 360

gatgatcact caagcaacta tctcctgata ctctccttga agataccctc aatatgcata 420

accataccng tgattaa 437

<210> 2691
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-F10

<400> 2691

cctggnccta ccggcccgga natcccggag tcgacccacg cgtccgccca agcgtccgaa 60

gaaatcatcg tcttcttctt catctattnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnncttgc ccgttctgtg cagaatcgta 300

tgatatcatc gggttgtgct gtcacataga tgatgaacat actttagagt cgaagaacgc 360

cggtatgccc tgttgttccn cttaaagtgg gagttgataa ccgtagcaca cataacgctt 420

caacaaggga atttanttaa gttgcagcga aagagaaagt cacgaaaaag cggtaccaat 480

tcgacacttc acttctccgg aagaactaaa gagaaggn 518

<210> 2692
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-F2

<400> 2692

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agcggccgcc ctttttttt ttttttttgg gatccataca acaacaactt taatatacat 120

ttcacattaa ttgtcaaaca gataagaaaa gatcatacga aaatagagca gctgattttn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt 240

ttaaacttgt tctttcactc taaaacctgt tcttctcctt gcagttgctt ctcaccattt 300

ttcttgtttt tctcattcac caaagttagt caaaacgaaa ctacaactac gcgaagcttc 360

actcctccac aacaccaang ccantctcaa cantctctcc atcangggca ctattaaaca 420

ttcaggncct cctcanactt gggggttccc ttttggnctt tccaa 465

<210> 2693
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-F4

<400> 2693

acagcgaaga tgattttgtt gccatacgtc ctgagtggac cactgttgat cggattcttg 60

cctgcagaga ggaagatggg gagctggaat atcttgtcaa atataaagag ctatcctatg 120

atgaatgtta ttgggagtca gaatcagaca tctcaacctt ccagaatgaa attcaaaggt 180

tcaaggatgt aaattctaga actcgcagaa gtaaagatgt tgaccataaa agaaatccca 240

gagactttca acagtttgat catactcctg aattcctcaa aggcttgtta catccatacc 300

agcttgaggg acttaatttt ttgcggttct cgtggtcaaa acagacgcat gtaatccctt 360

gctgatgaaa atgggactaa gcaagacaat tcaaagcaat tgccttttaa cntcactttt 420

tgnggagaac cccatcc 437

<210> 2694
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-F5

<400> 2694

cggtaccgaa ctcaaattcg cgggtcgacc cacgcgtcca gtaagaccta actcttaacg 60

aacttttaga taaaagctta taactgagag agacatagat cgacaaaagt ctctatacct 120

tcttgtaacg tggtggttaa ttaatcatgg ccgatcaaat ctccggcgag aagccggccg 180

gagttaatag attcgctctt caatgtgcta tcgtcgcctc catcgtctcc atcatctttg 240

gttacgatac tggtgttatg agtggagcga tggtgtttat agaagaagat ttgaagacaa 300

acgacgttca aatagaagtt ctcactggaa ttctcaacct ttgtgccctt gtcggatcat 360

tgctcgccgg aagaacgtcg gacataatcg gacggcgtta cacaatcgtc ttgggctcaa 420

tactantcat gttaggctca atantgatgg gttggggtcc gaaatatccn 470

<210> 2695
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-G1

<400> 2695

anaaagttgc gatgatactt aaagatccgg gtatgcggag tgtcttctca agaaacggac 60

aggttttgaa aaccggtgag acttgctata acccggagct agctcagagt cttgagacta 120

tttctgagca aggcccggga gcgttctaca acgggacagt aggcgagaag cttgttaaag 180

atgtgaagaa ggcgggaggg atcataacga tggatgatct aagaagttat aaggtccgag 240

ttaccgatgc aatgtctgtg gatgttatgg gttatacggt tcatggaatg ccgcctcctt 300

cgggcggtac agtcggtttt tcgatggtta tgaatatctt ggatagttac tccaatcttt 360

acactgcttc gggaagaaaa ctccggctgc accgttttga taaaaacaat gaaacatatg 420

tttgcaaccc gtaatggatt tt 442

<210> 2696
<211> 521
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-G12

<400> 2696

antggtttgc ctgcgcccta ccggccccgg atntcccgna atcggcccac gngnccgatt 60

tantcttcat tcttcgnttt cataccanaa caagaactct ctgttttcga caaaaacgaa 120

accttgagat ctattttgat tgacttttaa gaaagagaga gatctttctt agaagatttt 180

gtctcgtcgg cattgaagat ccagggtttg tctttcgaaa ttcagagaga aaatgggtga 240

tgaggcagag atcaaggaac atttaaagcc acaagcttca tctgaaacaa tggacaagaa 300

acataatgtg aaagggaaga ggttatggca agaaagtcaa gtatcaattg gtggagtttc 360

attcattgcc tgcttattaa gagacatggg tnctcantgg gcnatnccga ttcngattgg 420

cgatttaaca gatcctcnca ncaaccttac aatcncnaat ggaccttgga ggttnggccc 480

ctgaatnggg ttttnccggt ttgggcncac caaataaccg g 521

<210> 2697
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-030-Q1-E1-G3

<400> 2697

ttttttttt tttggagtta gaatgctatg aattccanac cagagaagat tcaaataaaa 60

cagagactaa aaaggctgtt caaacagtaa taattcttgc acatgaacac taaaccagaa 120

cgataacagg aaacaaagat acagtcagta ctcagtagtt tgagggcacc tacggaaagc 180

angtaatact acanagggta gacgttccan tgcttaatga tganccatca tcagtacaag 240

caaacgtgtt tttcatcata caccgtatca ctttcacaag tggctgcagt cattccgcag 300

cataangaga ttgacttcna gaagcagcat caactttgcg canaggaaca aggctaccan 360

gaagatgggg actctcaatg ctacnccttt aaggagacat ctccctanaa aggagaggcc 420

tt 422

<210> 2698
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-E1

<400> 2698

gagaaaaatg tataaatcac cattaacgtt gctcacactt cttactattt gttttggatt 60

cttcgatctc agcagtgctc tttatggatc ttcgtcacct gtggttcagc tcactgcttc 120

taactttaag tccaaggttc ttaattcaaa tggagttgtt ttggtagagt tctttgcacc 180

atggtgtggt cattgcaaag ctctaacacc tacatgggag aaagtggcta atattctgaa 240

aggagttgct actgtggctg caattgatgc anatgctcat cantctgccg cgcaggatta 300

tggtattaaa ggtttcccaa caattaaggt ttttgttcct ggaaaggctc caatcnaatt 360

ancaangaac aaagagatgc caaatccaat tgcnaaattt gccttaaaag caaattaang 420

ggccttttaa ntgaccgttt ggaaa 445

<210> 2699
<211> 531
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-030-Q1-E1-B12

<400> 2699

acggttgccg ttcctacgcc cggaatcccg aatcgaccca cgcgncaggt aaagaagaan 60

atgttagant cggagctaac aagtttccgg agaggcaacc gatcngaact tcngctcaca 120

gtgacaagga ntacaaagag ccaccacctg cgccgttgtt cgagcccggc gagctanctt 180

catggncctt ctgganagct gggattgctg agtttatagc tacgtttttg ttcctgtaca 240

tcactgtttt gactgttatg ggtgtgaaga ggtcaccgaa catgtgtgct tccgtcggaa 300

tccaaggtat cgcttgggct ttcggtggta tgatcttcgc tctcgtctac tgcaccgctg 360

gtatctccgg tggacacatc aanccaancg gttacnttcc ggttggtcct aactaaggan 420

ccttccctca acaacgaacc gtgtnccaca aaagggaagn aattgcctta aggaacnanc 480

ctgttgagct ggtgtttggn caaagggggt tcancccaaa gcaataacaa g 531

<210> 2700
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-B2

<400> 2700

ggcttttgac aatgggccac agacacagca agnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnatgttaa acctgccgga gaacgccgcg 120

gatcatccgg ttccggaacc gtcggatcgt caggctccgg aacaggcgga tctcgttcca 180

ccacatctac tcagcagaat ggtcggatct taggtcggcc gatggaggaa gtacggagaa 240

cctatgagtt tggtcgtgag cttggtcgtg gccagtttgg tgtcacgtac ctcgtaactc 300

acaaagagac gaaacaacan gtcgcttgca agtcaatccc tacgcgccgc ccttgttcac 360

aaaagacgac attgaagatg ttcgccgtnn aagtccaaaa ttatgcaaca atctcaacgg 420

gtcaaccgga acaatatnga ccttgaagg 449

<210> 2701
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-B4

<400> 2701

ggtcacanat ccgggtcgac ccacgcgtcc gaccacgcgt ccgcaaaaaa cagagacaaa 60

agaatggcgc gaaaatccct aattttcccg gtgattttgc tcgccgttct tctcttctct 120

ccgccgattt actccgccgg tcacgattac cgcgacgctc tccgtaaaag cattctcttc 180

ttcgaaggtc aacgttccgg taaactccct ccagatcaac gcttaaaatg gcgccgtgac 240

tcagcattac gcgacggttc ctccgccggc gttgacttat ccggtggtta ctacgacgcc 300

ggagacaaca tcaagttcgg ttttccgatg gcgttcacaa caacgatgct ttcatggagt 360

ataatcgatt tcggtaaaac catgggaact gagcttaaaa acgccgtgaa agctgttaaa 420

tggggaacag attacctccn taaagcgaag gggaatcccc gggtatct 468

<210> 2702
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-B8

<400> 2702

anaaattcgc cggtcgaccc acgcgnccng aacaaacctg gaatactact tgaagttgtg 60

caagtcctaa ccgatctcga tctcactatc actaaagctt atatctcttc tgatggtgga 120

tggttcatgg acgtantcca tgtcaccgat caacaangaa acaaggttac ngatatcaaa 180

accatcgatt acatcgagaa ngtgttagga ccaaagggtc atgcttcggc ttcacaaanc 240

acttggcctg gtaaaanagt cngtgtccat tcattangcg accacacatc gatagagatt 300

attgctcgtg atcgtcctgg tctcttgtca gaggtttcag ccgtactanc agacctcaac 360

attaatgtgg tggcaagctg aacatggact cacaaaccgt taggattgcn tgtgtcctct 420

angtgaatga caatgcaaan tcca 444

<210> 2703
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-B9

<400> 2703

tggctctanc ggcccggaca tcccggantc gacccacgcg tccggaaana aaccctatgt 60

tattccagtc ggtggatcga actctttggg aacttggggt tatatagaag cagcaaggga 120

aattgaggag cagctgaatt atagacccga tgacctgaaa tttgatgata ttgtggtagc 180

atgtggcagt ggtggtacaa ttgctggtat ttcattgggg tcttggttgg gagctctaaa 240

agccaaggtt catgctttct cggtttgcga tgatcctgat tacttctatg actttgtcca 300

agggcttctg gatggacttc acgctggtgt taactctcgt gatatcgtca acatccacaa 360

tgccaaagga aaaggatatg ccatgaacac gtcagaagaa ccttgagttg ttaaagaaag 420

ttacaaagtt caactggtgt taatcctgat tccgtttaca nttggaaaac tccttanggt 480

tgataaatga gattaccaaa gatcccaatg tttgg 515

<210> 2704
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-C11

<400> 2704

cgtgggctca tctggttttc gagagagata gagaaagtga gacaaggtta aggaggaaga 60

agatgactga gaatcgggtg gttttggctc tgcttatact ctgcattgtt gggtttgagc 120

caagtttcat ccatggagct acggattcat cagatacttc ggcgttaaac atcatgttca 180

gctccatgaa ttctccagga cagctctcac aatggacagc atcaggaggt gatccttgtg 240

gccaaaactg gaaaggcata acttgctctg gctctcgagt tacacaaata aagttaccaa 300

gtcttggact ttccggatna cttggattca tgcctgataa attgacntcn gttactgagt 360

ttgatatgaa caacaattac cttggaggca attgccttaa caacctcctc caaacttgga 420

nccaantgaa tcctgctaat aaccaattca ctg 453

<210> 2705
<211> 532

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-C12

<400> 2705

ntggttgcct gttcctacgc ccggaatccc gngtcgaccc acgcgtccgc ccacgcgtcc 60

gggtttcttg gacagaacga tcatagacga tttcaaagat tacgcggatc tatgtttcga 120

gagatttggt gatagagtaa agcactggat caccatcaac cagcttttca cagtgcctac 180

gagaggctat gcattgggaa cagatgcacc cggtcgatgt tcccaatggg tggataaaag 240

atgttacggt ggagattctt ccaccgaacc ctatatcgtt gcgcataacc agcttcttgc 300

tcatgccacg gtcgttgatc tatacaggac gagatataag taccaaggag ggaagattgg 360

cctggtgatg ataactanaa tggttccaac aatatgatga cactcctana agagcaaacn 420

agcaactttg gangggcaaa agaaatcctc ctggggaatg gtcaaagggn ccccctaaca 480

aanggntaat nnccnttcat cnaganggaa acctgtttgg aancccggct tc 532

<210> 2706
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-C2

<400> 2706

gattccctac agagtacttt ctcaatgcta ccttcaggaa atcagcttca gcagccaagg 60

ccagcagcaa gctcacagcc tgcagtgtcc tcacaaggtc catcctccgg tttgccacct 120

ggaagtgcag ttggatctgg ccattctact cctgctggaa ataatcagcc tccgtggcca 180

aaaatgaaac catccgatgt tcagaaatac acaaaggtat ttatggaagt tgatagtgac 240

aaggatggaa aaatcactgg tgagcaggcg aggaatctat ttttaagctg gaggttaccc 300

agggangtat tgaagcatgt gtgggaatta tctgatcagg ataatgatac taagctttct 360

ctgaagggag ttctgcantt caattgnatt tgatggagcg gtataaaaaa aggcgttctc 420

tcccna 426

<210> 2707
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-C8

<400> 2707

aatctctctt tctgtgacct ttcgcaactt gtcaaagcac cacgaccttc tctctacgga 60

gttgagatca atccccccaa atctcggtgt ggttcctcta nggtttttga tcggaatcgg 120

aatcgataat ctaaccggca tgaggccaat cctattgccg gatccaccca gtctatctac 180

cggcgtccct gatattttcg aacaaggcgg ttcccataac gtcgtcagac gcgccgtcgt 240

catcggaaac ggtttccctg gctccgagaa tcagtgtatc ggtctcgttc gtgcgctngg 300

cttatctgat aatcaccttc tcctaccgan gtgacaaggc cctnaaaggg agggactaaa 360

tngaattggn tggcaatggg ntccccaaat tgggntttcn ccaagaaagt ttgggncttt 420

aatcct 426

<210> 2708
<211> 513
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-D11

<400> 2708

ctaccgcccc gganatcccg antcgaccca cgcgtccgcg gacgcgtggg gaaacagaga 60

tttcgcagag gaaccatcac tgattgtgtc accgaaccat tgatcttcaa gttccgatcc 120

aatttcagat atgtcgagga ttattggtag aaaagggatt aactatatcc atagactaaa 180

ttctgcgtcg ttcacgagcg tatctgcttc ttcaatcgag aaagggcaaa atcgcgtgat 240

tgatgcttcg ttaactctta ttcgtgaaag ggcaaaactc aaaggagagt tagtgcgtct 300

tttaggtgga gctaaagctt caacatctct tcttggtgta ccacttggtc acaactcttc 360

ttttcctcaa ggncctgctt tgctcctcct ccgtatccga naaactaatt tgggggtggt 420

aancacaaaa ctnctgccac tgaaanaaag ggaaaggant tnaaagggnt caacnggttt 480

cnaactgaag gttgggggaa ttttccggtn caa 513

<210> 2709
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-D12

<400> 2709

antggtttgc ctgttcctac ggcccggaat cccgaatcga cccacgcgtc cgctggcctt 60

canaagctgg acatgtcaag caacactctc agtggnccta tccctgcttc gcttgggcag 120

ttanaanagc ttantaactt caatgtctcg aacaacttcc tggtggggca nataccttca 180

gacggagtgc tctctggatt ttctaagaac tccttcattg gaaatcttaa cttgtgtgga 240

aagcatgttg atgtcgtgtg ccaagatgat agtggaaacc cttcatcaca ttctcantca 300

ngtcaaaatc anaagaaaaa ctctggtaag ctgctgatta gcgcatcaag caactgtagg 360

tgcgctactc ctaagttgca ctcaaggtgt ttcctgggga tggctttcaa nataaaaaag 420

ccncggtaaa tccgaaaatt taaagncctg gcaanggatg tttggtggaa ggttcctcta 480

attgngaatg ttccacnggg gaatttacct 510

<210> 2710
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-D2

<400> 2710

naaacacatg gtgatttctt gagactggaa catacggagg gatacatgaa gttatctgcc 60

aagacaaaga cgtttttcgc taccgctgtt tccttgtggg atgcagaatt ctacatcaaa 120

gttgacgatg acgttcatgt gaatcttgcc tccctcaaga aggctttatc cgcacaccaa 180

aacaagcctc gggtttatgt tggttgcatg aagtctggtc ccgtcctagc cagaaagtaa 240

gtaaaaaccc tactaaggtg agcatttttt aggtacttaa acagcgtaag agcatcaacc 300

tttccggact ttctatactt ctggcaaaaa aaaaaacagg agtgtgaagt accatgagcc 360

agagtattgg gaattttgga gaaatcngga acaagtattc cgccaagcca ctgggcaatt 420

ttaggcaaaa cnaaaga 437

<210> 2711
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-D9

<400> 2711

caaaagagac gacagagaaa gaagaagaag aaacgcgaag aacagaaaca gctctcttaa 60

gcttttctta attattatta taattttctc ttcttaatcc ccaaatctcc tgatggattc 120

atgaaccaga tcggctgatt tgagtttccg ggtttgattt ttttcccttt ttgtgaaatt 180

gggttggaat ctggagatct ggatcttata aagctggaaa ctttacgtgt gcttgatgaa 240

ccgattttga ttaggtgatt ggttagattc ggaaatttga agacttgtta atttgggttt 300

gggattggga ttgatctgaa aatttgtagt ttttggaaga tatgttggaa gattgattac 360

cagaatcctg tttgatacaa ggggtttccc aagctcncgt ccttccgaat caaactggtc 420

caaccctaca tgtttccaga gggatgatga na 452

<210> 2712
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-030-Q1-E1-B10

<400> 2712

gcccgganat cccggatcga cccacgcgtc cggttatang agtatattca ctttcttcaa 60

gaaaaagttc acatgtatga agattctcac caaatgtggt atcaatcccc aaccaaattg 120

attccttgga gaaatagtca tgggtctgtt gcggaggaaa atgaccatcc tcaaatcgtt 180

aaaagctttt caagtaatga taaagttgct gcttcttcgg gttttctctt ggatacgtac 240

aattcagtaa atcctgatat tgactcagca gttagcacca agattcctga acacagtcct 300

gtttcagcag tttcatcgta tctacgtacc gagccttcgc tgcagtttgt tcagcatgac 360

ttttggcaac caaaaacaag ttgtggaaca attaacngtt ttacaaatga attgttaaca 420

tcctgacgaa aaaacatcag ccagcttgtc cacngtcngc tcacaaggtt aancccttcgg 480

aa 482

<210> 2713
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-G11

<400> 2713

ccgnacggta ccgaacagaa attcgcgggc cgacccacgc gtccacccac gcgtccggta 60

gtaataatgg taacgaagaa gatgatcaac aagaggaaga agaaacggat cttctgaaac 120

gatccggttc aagtgcaagt accggttcag cgacggttcg attaccaacc ggaagaggta 180

gttacagtag atccaccagt agtatacgcg agatcgagct gattccgatc gaatcggtga 240

ttcatctgag ctggattgct cggcgaatgg tctccgccgg ttatctccgt gaatgtattc 300

aagtctacgg aagcgttcgc aaatccgccg tcgattcaag tttccgacgg ttagggatcg 360

agaaactcag catcggagat gttcanaggc taaattggga aacgcttgan cagaaagatt 420

cgtcttggat tcgaagcact aagatcgtgt ganaattgtg t 461

<210> 2714
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-G12

<400> 2714

ncagagcctt actccatgct ctgtggagaa ccattatttt tcagagaaaa catatgcaaa 60

ggacacatta gatgagccga agcggatagc aaagaagctt acttctcatg tatctggtac 120

gggttgccat aagaaagttt ctgaaggaag caatagaaaa agggataatg atttacatcg 180

gttgctgttt atgcctaatg gacttccaga cgggactgaa ttggcttact atgtgaaaac 240

gcagaaacta ctacagggtt acaagcaagg aagtggtata gtatgtagct gctgcagtag 300

agagattagt ccttcgcaat ttgaagcgca tgctggaatg gcggctagac gacaacctta 360

tcgacatatc ttcatctctt ctggattgtc attgcatgat ataaccatgt cactgggcca 420

a 421

<210> 2715
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-G2

<400> 2715

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atcgtttttc tctagattcg attccgattc caaagaacta gtctccggcg tgtaatctct 120

gatcgttgaa gatccaagct acgccgcatc ttactcgccg gcggcttgaa tcatggctga 180

taggagaaac aggtgtaacc agatcctcct tttagcatac cagagttttg gcttagtgtt 240

tggagatttg agtatttctc ctctctatgt gtataaatgt acattctacg gaggattgag 300

acatcaccaa acagaagata cgatatttgg cgcgttttct ttgatatttt ggaccatcac 360

tctcctttca ctcatcaagt acatgggttt tgtgttaaat tcaaatgaca atnggnaaag 420

gagggatctt tggctttg 438

<210> 2716
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-G4

<400> 2716

accgnaggca atcacggggc ccnnccacgc gtcnaaaaaa ccctaatttc cctgganatt 60

tttnccaaan nccaagcnct aagattcgtt gtgagcaatg tcttctgttt caagccagcc 120

acagtttcgt tacacgcaac ctcgttcaaa ggttcttcat ttgagaaact tgccatggga 180

atgcactgaa gaggagttaa ttgaactcgg aaagcctttt ggtactgttg ttaatacaaa 240

atgcaatgtt ggagctaatc gaaatcaagc tttcattgag tttgaagatt tgaatcaagc 300

tatacaaatg atatcttact atgcttcttc ttcggagcct gctcaagttc gtggtaaaac 360

tgtctacctc cagtactcca acaggcaaga gatagtgaac aacaaaacga cagcgggatg 420

ttgtggggaa tgttcctccg gtgactaanc aaag 454

<210> 2717
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-G5

<400> 2717

acacactctc agtcgcacgc tctttcacgc gccttttcga tttcacattc ggatccgatt 60

tgttcacccg ccgaagatcc accggcatct tctctaaacg gctctgtcga gaaggatcgg 120

cgctattatt gctggaggac gattgggtgt ttacttttta ctagtaaacg gagtaatttc 180

ccaagcgaaa ggtttcattt ttgagctcca cgttgaacga actaagcggt ttctcggagt 240

tctcttgctt cctctccacc cagcgcaatg gagaaaacag acgaagagag gaagaaggct 300

cagatgctgg acgctcgggc cagaaacatt agccacaatg ttcgctgcac tgagtgtgga 360

agtcagtcca ttgaagactc gcaagnaaat atcgctaatc cccctaaaan agcg 414

<210> 2718
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-H1

<400> 2718

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gtgggttgta ttatagtttc agtcttgtat ttttcattct attgcataac accaacttct 120

tcatcagcct ccatccaaga tcaattcata aactgtgtca aaagaaacac acatgtttct 180

tttccactcg agaaaacgtt attcacccct gcgaaaaacg tctctttgtt caaccaagtc 240

cttgaatcga cggctcaaaa tctccagttc ttggcaaaat ccatgcctaa accgggattc 300

atattcagac cgattcacca gtctcaagtc caagcttcca tcatttgttc aaagaaactc 360

ggaattcatt ttcgtgttag aagtggcggt cacgatttcg aaggccttgt cctaagtttc 420

acggattgaa aaaccgttta nantactcga actgtcaaaa atggaaccaa tccatggttg 480

<210> 2719
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-H11

<400> 2719

ccgntcagta ccgaacacaa attcccnggn cgacccacgc gtccngtaac ancantggcc 60

aaaaccagag ggtcttgttg tctcgtcaac gctctaancg ctatagcttt tttggcgaca 120

gcccanttgt gtgaagctgg cttgtctcaa naagaacagg acanggtctc gaaattgcct 180

ggtcanaatt ttaatgttag ntttgcacan tactctgggt ttgttgctac taatgagcaa 240

ttgggaagag ctcnctttna ctggttattt gaagccgttg aagatgctaa gtctaagcct 300

cttgttctct ggctcaatgg aggaccatna tgttcatctg ttgcatatgg tgaaagcaga 360

agagatatga ncatttcaca ttaaggcaga tgggaanact ctttacctta atcaatattc 420

gtggaaccaa gctgcaaata ttttgtccnt gaagcaactg 460

<210> 2720
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-H12

<400> 2720

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aatgagacaa gattaggtta cggtttagca taggattcca aattcatttt caatcccaaa 120

aatacgatta ttcaggatat gggcaatctt ctggtaagcc aagcgagcaa gatacgtacg 180

cagacataga agcagcttac aattggctaa gacagaccta cggtacaaaa gatgaacgta 240

tcattttgta tggacaatcc gttggaagtg gaccgtcgct tgagcttgct tctcgtcttc 300

cacgtctccg agcacttgtt ctccatagtc ctttcttgtc tggtctacgt gttatgtacc 360

ctgtcaagca ctccttcccg ttcgacattt acaagaatat tgacaaaatt catctcgtgg 420

gagtgtcctg ttcctgtaat tcatggaaca gatgacgatg ttg 463

<210> 2721
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-H6

<400> 2721

gtaccggngg ccatcacggg ccccccgcac gcctnnaana ctagtcggcg gccgcccttt 60

ttttttttt ttggagttag aatgctatga attccaancc agagaagatt caaataaanc 120

aganactaaa aaggctgttc aaacagtant aattcttgca catgaacact aaaccagaac 180

gataacagga aacaaagata cagtcagtac tcantanttt gagggcaccn acggaaagca 240

ngtantacta canagggtan acgttccagt gcttaatgat gaaacatcat cagtacaagc 300

aaacgtgttt ttcatcatac accgtatcac tttcacaaag tggctgcagt cattccgcag 360

cataangaga ttgactcgan aaagcagcat caactttgcn cagaggagca gggctacang 420

agatggggac tctcaattgc tangcccttc aaggagactc tccttanaag gaaagg 476

<210> 2722
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-H7

<400> 2722

tccnacagcg tcggtaccgg accaaattcc nggnccgacc cacgcgtana ccaagatggg 60

gaaactgana aagcggattc gtccttgtga tattacaatc aacattggta aagaggcgcc 120

tattccagaa tgccctatcc ctggtgaaag atgganagaa gttaagcatg acaatactgt 180

tacctggctt gctttttgga gtgatcctat caatccanaa gagttcaagt atgtattctt 240

ggcagctagc agttcgttga anggacanag cgananagan aagtatgaga aagcgangaa 300

gctacataac catataggga gtattagagc agcatacacc atanatttta ntancaagga 360

tgtnacaaag cggcaagata ncagtggcaa catatctcat cgataagcta ncccttangg 420

ctggaaattg agaangatga cgatnacgca gatactgttg gctggtggtc attgna 476

<210> 2723
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-H8

<400> 2723

aaaaaatcgg nggccccgaa tctctcaaan ccaattaact tttttccggg aagatctcac 60

cggagaaaag ctagctaggg tttctccacc gtgaagattc tagaagcgag aatttggaat 120

ttgctaatta agaagatgtg ttacgatctt tcttaantaa aaaagcattg aaattgacga 180

atttagggtt gtgaaaaata tggatttgga ttcttcaatg gtaccagaga atgatcaaga 240

tcctattgct acgtctgaga atcaatctcc tatggaggag aaagaagaan cgtctgagca 300

acaaaccgga tccgaatccg aatcggcgtc attgacnccn tctcntcctc ntccttcgca 360

gcagcaacat cancagcagc aacagccgca ngtaacggcg gtngttggcc cgagatgtcg 420

ccaacgtaat cggttgttna tg 442

<210> 2724
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-H9

<400> 2724

tatccagccg nacaggtacc gnacncnaat tcccgggccg acccacgcgt ccanccacgc 60

gtccggtcga tttatttatt cctctccaaa gcaaaagctt cttcgatcgt ccttgtctcg 120

ttttcaattc taaatgtttt gtgcagaaaa atcatgactt tggcttctcc acgagtttca 180

aattcaaaga cgactgtgtt gttgtttcct cgaaaagttt cttcaattgc atttgctatt 240

ggtggattaa cttctttcgt catcttcgct tctctgcttc ttttcacgta tcccattggt 300

tcctctgtta ctgactattt ctacagaaca gagaccactc aaaacgtcca gtttcaccat 360

agtatccatg atcctgatcg taacccatct cctgtttcta gctcagagtc accaccanta 420

ttgacacaag atagtgatga taaaagtgct cccaanggat 460

<210> 2725
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-G10

<400> 2725

aaaaaaatca tcttcttcct caatttcttc tgattcctcc tctctttctt ctacttctca 60

ccaaatttct gttagttctc tgataagtac atttcgtgct tatcaaatac ttatatttta 120

aggggttgaa gttgtaattt tgaagaagtt gaagatcaat caaaaataat agaagaacag 180

agacgacgaa acgaaaccag ccggagaact gagcagagaa aaacccccgg cgagaatggg 240

aaattcgaat tcgtcttctg ttgatcatcg cttcatttct gcttccagag cttttactca 300

gaagaagctc gatgatctca aatctctctt cgtctccctc gcttccaatt ctcagagcaa 360

tgaccaatac gtctcgtanc ctgttttcca ngttttgacg attcgtgttc tgtcc 415

<210> 2726
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-D1

<400> 2726

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tcttgccatt cactttcacc accgccacac gtgacacatg tgcgaccgcc gctcccgatg 180

gttccgacga cctctcaatc atccccatta acgccaaatg ctcacctttc gcacccactc 240

acgtctctgc ctccgtgata gacacggtcc ttcacatggc ctcctcagac tcccatcgac 300

tcacctacct ctcaagcctc gtcgccggca aaccaaaacc cacctccgtc cccgtcgcct 360

ccggtaatca gctccacatc ggaaactacg tggtccgagc caaactcggc actcctccac 420

agctaatgtt catggtccta nacacaagtt acgacgccgt ttgggtcccn tggtccgggt 480

ggtccg 486

<210> 2727
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-D4

<400> 2727

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atgacgacaa atctcagcct cactctggtg gcggcgtcga tagtgctgga aagatatttg 120

ttggaggttt agccagggag acaacttcag ctgaattcct caagcatttt gggaaatatg 180

gagagatcac tgattctgtg attatgaagg ataggaaaac tggacagcct cggggatttg 240

ggtttgtcac atatgctgat tcctctgtgg tcgacaaagt tatccaagac aatcacatta 300

taattggcaa gcaggttgaa attaagcgga cgataccaag aggattcatg agctctaacg 360

atttcaaaac caagaagata tttgttggtg gaattccttc atctgtggat gatgatgaat 420

tcaaggagtc cttaagcaan ttggananct gaaggacacn agattatc 468

<210> 2728
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-D9

<400> 2728

ncaaattccc gggccgaccc acgcgtccnc tcttcgccaa cactgttctt gtctatgttc 60

aagataatgt tggctggacc ttgggttatg gacttccaac attaggtttg gctatttcca 120

ttaccatttt cttgttgggc actccgtttt accgccataa acttcccact ggaagcccat 180

tcaccaagat ggctcgagtc atcgtggctt catttcgcaa agccaatgca ccaatgacgc 240

atgacatcac gagcttccat gagctgcctt ctcttgaata tgagcggaaa ggcgcctttc 300

cgatccaccc tactccaagt ttacgattct tagacagagc ttcactcaaa acaggaacaa 360

atcataaatg gaatctttgt actaccacag aagttgaaga aacaaaacaa atgctgagaa 420

tgttaccaat ctgttcataa ct 442

<210> 2729
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-028-Q1-E1-E10

<400> 2729

accgacgcgt ccgattttcc ggcggaaaag caaatgtccg ttaacgacag tatcgatcct 60

cggttcgtat tccacgttga agatgaatct ttgcgtttcc gtgtgggaga ttcaggtact 120

aagatccggg agctcgaaac cgtcggcgat cgccatttca gaacccagca aggtttctgc 180

ggaaatagaa ttgagaaaga tgaaaccatg tattccgatg gagatgatga agagtacgac 240

gtttctatcc gaagacgaac tgctctgatt cagcctggta ttgattccgg taacaattat 300

gattctgctg cagctgaaga aaccaacaga gaaagtaaaa atccagttgg ttgggaactg 360

gttgtgagag aagatgggga aggtaattca acgattgatc gacatgaaat gggagtttaa 420

<210> 2730
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-E11

<400> 2730

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agatttctga aaataaagtc gtttcttttt ttttttgcct tggtcactca agactctctt 120

cttcactctc tgtttttttgt cctcttctaa aatttagaga aaaaaacgaa agttttcacc 180

aaaaacagag gaggagctat gtcatcgtcg acgatgtaca gaggagttaa tatgttttca 240

ccggcaaaca caaactggat ttttcaagaa gtcagagaag ccacgtggac ggcggaggag 300

aacaaacggt tcgagaaagc tctcgcttat ctggacgaca aagacaatct tgagagctgg 360

tccaagatcg cagatttgan tcccggcaaa acagtanctg acgtcattan accnatacaa 420

ggagccaaga ggatgatgtc agcgacatcg aaacccggac ttancccc 468

<210> 2731
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-E4

<400> 2731

cgtaccggtc nggaaatccc gggccgaccc acgcgtccag tttcaagtaa attaattttt 60

gatcttttca ttttatctct ctctcttttt cttctatcca aaacaccatt tttgagatca 120

gagcttctag cagcgtaaaa aatgcagacg aggtatatgg agaggactaa tagtatgaga 180

gagaagagaa aattggagga agatgataat cagcagcagc agcaacagcc tgagcgtaaa 240

aggccagctc ttgcaagtgt aattgtggaa gccttgaaga tggatagttt acagaggctt 300

tgttcttctt tggaaccgat tcttcgccga gtggtaagtg aagaggtgga gcgggcattg 360

gcaaagcttg gccctgcaag acttagtgaa aggtcgtctc caaaacgaat tgaaggtatc 420

ggtgggaagg aatttgcagc tacaattcaa ggtcnaaaat tgtccggtnc cttgttaacg 480

g 481

<210> 2732
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-E6

<400> 2732

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caganactaa aaaggctgtt caaacagnaa taattcttgc acatgaacac taaaccagaa 120

cgataacagg aaacaaagat acagtcagta ctcagtagtt tgagggcacc tacggnaagc 180

aagtaatact acagagggta gacgttccag tgcttaatga tgaaacatca tcagtacaag 240

caaacgtgtt tttcatcata caccgtanca ctttcacaag tggctgcagt cattccgcag 300

cataaggaga ttgacttcga gaagcagcat caactttgcg cagangaaca agggctacca 360

agaaatnggg gacctctcaa ttgctaangc ccttcaagga gaaatctccc taana 415

<210> 2733
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-F10

<400> 2733

nctctacttt gcttcttcac tcgacttgta tctatcatcc atggcttccg agaatccttt 60

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cttacctgct ttgaacgatc ccaggatcga taaactacct tattccatta ggatacttct 180

tgaatcggcc atacgtaact gtgatgagtt ccaagttaag agcaaagatg ttgagaagat 240

tcttgattgg gagaatactt ctcccaagca ggttgagatt ccgttcaagc ctgctcgggt 300

tcttcttcag gactttactg gtgttcctgc tgttgttgat cttgcttgca tgagagatgc 360

catgaataat ctcggtggtg attccaataa aattaatccg ctggtccctg tagatct 417

<210> 2734
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-F11

<400> 2734

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tttggccaat agttcacagc tatactatct tctctttggt actaatgcac attattgcag 120

tcggattatt cgggcttaaa gagcttccag tggcatcttc tttaacaatt ccccttccgg 180

ttctcacggt ccttttcagc atttactgcc aaagacggtt tttaccaaat ttcaaatctt 240

atcctaccca gtgtctggta aacaaagata aagcagacga gagagagcaa aacatgtctg 300

aattctattc ggaactcgtt gttgcttacc gagatcctgc actttcggca tcacaggact 360

cgagagatat ctcaccttga gatcaccttt ttacttgagc tattgaagtt tgcttatgtt 420

gaagctgttg gtttactata cctggtgcaa tccatgaaag aacacac 467

<210> 2735

<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-F2

<400> 2735

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aagagggaga gagatgaaga agccggtcgg agccgagaag aagagggtta aacgatcatc 120

gggatctgca tctacttccg ttagagattc tggttctgat tctcaaccta ggaagcaagc 180

tgtgaagaag gatagttttc agttgtttgc tgagaaagtt agagaccaca agggattaga 240

atccagatgg gctgttatgg agcaagcacg agttgaatac tttagaggga aagattttgt 300

gagctttatg aagaataacc ctgactttaa agatattctg gaagaagata aagaccttga 360

cacagacgat attgccaatg ttttgttggg aaagaacttt tggtccgctg tgatcgtgtt 420

actaaaactc ctcgtcccng gnaagaaaaa gctccccaaa cttggccng 469

<210> 2736
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-F5

<400> 2736

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ccgcccacgc gtccggaaag aggaagactt tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnngagttcg gctacgaacc agagtaaaca agggaaaccc aagaacaaaa 240

acaatccttt ttacagcaat gaatacgcta caacagatag atctggagct ggttttaagc 300

tctctgtgct gaaagatcct acaggacatg atatatcctt gcagtatgat cttggacgtg 360

aggttggtcg aggcgagttt gggtataant tacttgtgta ctgataagga aactgggtga 420

gaaantagcc tgcaaantca tatccta 447

<210> 2737

<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-F7

<400> 2737

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cttaacgaac ttttagataa aagcttataa ctgagagaga catagatcga caaaagtctc 120

tataccttct tgtaacgtgg tggttaatta atcanggccg atcaaatctc cggcgagaag 180

ccggccggag ttaatagatt cgctcttcaa tgtgctatcg tcgcctccat cgtctccatc 240

atctttggtt acgatactgg tgttatgagt ggagcgatgg tgtttataga agaagatttg 300

aagacaaacg acgttcaaat agaagttctc actggaattc tcaacctttg tgcccttgtc 360

ggatcattgc tcgccggaag aacgtcggac ataatcggac ggcgttacac aatcgtcttg 420

ggctcaatac taatcatgtt aggccaataa tgatnggt 458

<210> 2738
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-F8

<400> 2738

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ctgaaggcga ctcaaataac cccggttcat tggctggtaa gaagattctc atcccaggtt 120

ctggacagga gattcccgct aagaccagca cttgttgtac ttcttcttga tctgtctcct 180

actcaagcaa gattcatttt ttttcctcct gaaatttgtg atagagaatg ctactttcat 240

tgtatattct ttttcgaatc tggcttgttt gctagttcat taaacattgg tgtgcaattg 300

gacaccgata gaaagtattg gaacaaatag cttttgaatg aaatatgaaa caaacagtct 360

ttgagagtta acgtcaaaaa aaanannnna aaaaaaaaag ggc 403

<210> 2739
<211> 456
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-F9

<400> 2739

gtaccgaanc acacaattcc cgggncgacc cacgcgtcca cgcttagctg ggaccggtac 60

acagatctac accgctttat cttcgaagaa aacgtctgca gcagacatgt tgaaggctta 120

ccagacatac atgtcggtct gccctttcaa gaaagctgct atcatatttg ctaaccacag 180

catgatgcgt ttcactgcaa acgccaacac gatccacata atagatttcg gaatatctta 240

cggttttcag tggcctgctc tgattcatcg cctctcgctc agcagacctg gtggttcgcc 300

taagcttcga attaccggta tagagcttcc tcagcgcggt tttagaccag cggaaggagt 360

tcaggagaca ggtcatcgct tggctcgata ctgtcagcga cacaatgttc cgtttgagta 420

caacgcaatt gctcagaaat gggaaacgat tcaagt 456

<210> 2740
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-C9

<400> 2740

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tggcgcttat gaatggaagc atgaatctat catcggtcaa atcatcgatg atcaaccacc 120

gtcaaccaaa cttctcctcc gccgtctcca gacccacttc tttccggatc tccgccgtgc 180

aaaccgaccc aaaaacacca gctgcttcat cggcgtcggc ggcgacgacg actccggcaa 240

cgttgacgaa gcccgttgga gttaatgtgg gtaaaggaaa atgggcacca gagagttgga 300

ggacgaagaa agctttacag caaccggact atccagattt agctgcgctt gaagctgtgc 360

tagagacgat cgaagctttt cctccgatcg tgttcgccgg agaaactana ttgcttg 417

<210> 2741
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-H1

<400> 2741

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cnctcttcca ttaaatcttt gtggttctct tttattgttt tgatactgtg ctctgcttcg 120

gagagtgtag aaagagacag agctaaagtc tctgtgtttc ttctcagcag gactaaaagg 180

aaaaaaggaa atcgattgct aatgtcgggt gagaaacaag cggaggagtc aatagtagtc 240

tccggggagg atgaggtggc cggtagaaaa gtggaagatt cagcggcgga ggaggatatt 300

gacggcaacg ggggcaatgg atttagtatg aagagcttcc tctggcatgg cgggtccgct 360

tgggacgcct ggtttagctg tgcatcaaat caagtggcac aagtgctgtt gacgctgccg 420

tattcgttct cgcaattggg aatgttatca aggaataatt gcntcaaata atccaaaggg 480

gtaaa 485

<210> 2742
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-H11

<400> 2742

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tcgttttgtc nttctttatc gtctcggttt cgtcatcnga tgtcaacgac ggcgangatc 120

tcgtgatccg tcangtggtt ggtggagccn ancctcangt tttgacctca gaggatcant 180

tttctctctt caagcggnan ttcgggaagg tctangcttc caacgaggag catgactata 240

gattcncggt tttcaaagcg antctcaggc gagcgatgcg tcaccatnaa gttggatccg 300

tcggcaactc atggtgttac gcagttcnca aatctgactc ggtcagagtt ncgtangaag 360

cacttggggg gttagaatgg gtttaacctt cataaanatg ccaacaaggc tccgattctc 420

cctactggaa aatctcnctg aagattttga ttggtaca 458

<210> 2743
<211> 472
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-H4

<400> 2743

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gaaagccttt ctaattccaa tcttcttcac ttgtatgaca cgttcgtcta ctcttgcgct 120

tggtcggttt tcttaggatt tttgcacaag aatgatcaac gcatgattcg gattccagga 180

tagagaatcc atggctactt tcaatgttct ttgtagcaat cgatttagat tcaatggagg 240

ttattctccg gagaaattta atagaaaggt gtcttcgagg agtagtgagc ttaatgtttg 300

tgtctctaga atcaggactc aatcgtttag ttgcaggaga cttggtgggt ttatggaaat 360

tggtgaaacc aagattaagg gttattaana gttcatggcg aatcctcgta ataaaatttc 420

ctgtataacc anattaagcc acttgtgact gggtgantac ggagaataag ga 472

<210> 2744
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-A1

<400> 2744

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tctattggaa agaaaaaaat ctttggaaaa tggatcaaac agaggaacca ccactcaaca 120

cacaccagca gcacccagaa gaagttgaac atcatgagaa tggtgcgact aagatgttta 180

ggaaagtaaa ggctagagct aagaagttca agaacagtct cactaaacat ggacaaagca 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnncacca ggcgtaacag gtaaacctag agaaactaat gttccagcat 360

cggaggaaat tattccacca gggacaaagg ngtttcctgt cntgtccttc ccgantacac 420

caaanccact gaatccgt 438

<210> 2745
<211> 410
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-A10

<400> 2745

aaatatctct ttcctgttag agacaatgga cggattgatc agaggtttgg tcgacgtggc 60

tatcggagga aaccaacgcc gcggcggaga cgatggtggt gatgatgaag gcaactcgag 120

ggacgagaga tccagatcta cttgggctaa tgtggtttcc ggtgaggaag aggatcagaa 180

tcgcgcggga ggatcgtcgc acggccgtcg ccagaattca gaggagaatc aatgggagaa 240

gaagggcgaa aggcttccca caaggcattc acaatcacat gaggaggacc aggaagagaa 300

tacatatgcg gctaaagtga gcgagaaaca agacttctcg gagagccagc aagangaaaa 360

tgatggttgg gaaactgtgg gcaaaaagaa acctgcaang gaatcacata 410

<210> 2746
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-028-Q1-E1-A11

<400> 2746

gattctagtt tctgctatca aacacatttt gacatctatc caattgctat cgtgcacatt 60

tgaacacaaa ctttgtttca atttagcgtt tacagtcgca gacgcaatcg cggttaagtg 120

aagcgcatcg tcactttcca cattcatagt aatatgcaac aactgagtaa cagaaatttg 180

taatcgaact cagatttcga agaagcagat ctcacaatgt ctggaaaaca gcaaaatcat 240

cgttctactt cctccagacc cagatccaaa accctaatcc tcatcggctc tctcttcacc 300

gtctctctac tcgtcatcct ctacacctct tcttcctcct cccgagcctc catctccaat 360

cccaacccgt cggaccgacc agagacgtcc ttcgttacct cgcctgagca attccta 417

<210> 2747
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-A2

<400> 2747

cgtaccggtc agcnaattcc cgggncgacc cacgcgtccn aaaaaaaaac aatttcttct 60

agcgaagaag cagaattaat caaagttcag agctttcact atgaatatcc caagtggaac 120

cttctcaaga tctgatcatt tccatgcttc aagtgatgct tctctctttt caagctctct 180

tcctcttatt caacaccaaa acatcaaccc tcgtgacagc taccatcagt ctgttgatga 240

aatggcttct ggcttagacc attttagtgg aggcattggc aatatgcttg atgatggtga 300

ctcacatcca atcggaaaca tgcttcctga tgatgaggaa gagcttttct ctggtctaat 360

ggatgattta aacttaagtt ccttgccagc tacgttggat gacttggnag atatgattaa 420

tcggtaacgg aggaggtcct gaantgg 447

<210> 2748
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-A3

<400> 2748

cgggncgccg aaccactcca aaaaananca aagnaanggg gcttttacna ncgtttttgg 60

acggattagc gagaactgta tcgacgaaga aaggtaaaaa actatcggaa gatgaagatg 120

gagggagaga gatcgcaaaa tcgatgatta aagattcgaa gaagaactcg acgttgctcg 180

gtacttcagg ctttgttagc tccgaaagtt ctaagaggtt tacctctatt tgttctaata 240

gaggtgagaa aggaatcaac caagatcgtg caattgtttg ggagggattt gggtgccaag 300

aagacataac attttgtggg atgtttgatg gacatggacc atggggacat gtgatagcca 360

aaagagtaaa aaaatcattt ccatcttctc tgctttgcca atggcaacaa actcctgcct 420

ccttaacaac ctccccccgga aaggtnccc 449

<210> 2749
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-B11

<400> 2749

gggctgttac agtacttcct tccgtctccg gtctctctgc cgtcgcatct tcatcgaacc 60

tacgacgtct gacctccgcc tcgaaccatc gactcacggc gataaaatcc gtaacatcta 120

cttcttctcc tcctaccct tctagtggtg ttcaacggag acggaagaat aatgatgaaa 180

acagagccac ggtggcgaag gtggtggaga atccgtattc gaaagtggag gcggcgcgtc 240

cggatttgca aaagaggttg tcagattttt tggaagaagc tagagagttc gtcggagatg 300

gaggaggtcc acctcgttgg ttctctccat tggagtgtgg cgctcaagct acaaactctc 360

ctcttctcct atacttacct gggattgatg gaactggact aagtcctaat ccccna 416

<210> 2750
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-B2

<400> 2750

ttcntcgcag gaccgtaccg gtcngnaatt cccgggncga cccacgcgtc cancgcaact 60

gctttcacca accgtctccg atactggaaa cgagctccag taccacaaca agtcgacgag 120

aacctctttt tcaccgtcgg attagggcta atcaactgtg ccaacccaaa cagtccccgt 180

tgccaaggtc ctaacgggac ccgattcgca gcaagcatga acaacatgtc cttcgtgcta 240

ccacgaagta actccgtcat gcaagcatat taccaaggca ccccaggaat cttcacaacg 300

gattttccgc ccgttccacc ggtgcaattc gattacacag gtaacgttag ccgcgggtta 360

tggcagccca taaaaggaac caaagcttac aagcttaagt acaaatctaa tgttcagatt 420

gtgttacaag acactagcat tgtcacgcca aagaatcntc ccaagcatcc aaaacggtaa 480

cn 482

<210> 2751
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-B6

<400> 2751

agggaaattt agttccagct cgtcctgctc ctccgcctcc acctccttta tatagttccc 60

tcacttgatt ttttttttta gcctttcatt ttgcagacat cttcagggaa ctgagctaat 120

actttttttt ttcctgatat tttcttgaaa agcctttctt cctgctgcaa ttatgaatga 180

naannanaat accacaaagc anactttant aatacanaaa aacagaactt gagtagtggg 240

aantgagaaa tagaanaaat gcagtaaagc cagtgaattc acaataacat tttcatttcc 300

attactggaa tacattntat tcagtcatct gtgaggttaa tgtacctgac atgaattatg 360

ttattttgaa catgttatta taatgatttc aaattaactg tattgtttca agttttgtca 420

ttaagtgctt aaatgg 436

<210> 2752
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-C11

<400> 2752

aaaaatttta gctgaaaatg ctggaaattg gaagtcccaa tgctctgttt ttccgtacga 60

atactacttg taataatctt ctccgtgagc ttcagaaaat atgggttgaa attggtgaga 120

ctgagactga gaaagataga atgcttatgg aattagagag agaatgtctt caaatctatc 180

aaagaaaagt tgatgaggct gcaaattcta aggcaaagct tcatcagtct gttgcatcaa 240

tagaagctga agttgcttct ttaatggctg cccttggtgt gttaaacatc aactcaccga 300

ttaaactgga taaaggttca aaatcattga aagaaaagcc tgcagctgtg acacctccaa 360

gttgaggaat tgagaattca aaaagaggag agaatgaagc agttttccga tataaan 417

<210> 2753
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-028-Q1-E1-C4

<400> 2753

ngtgaagttg gggcttatgt ctggatttat taaagctgct gttagcgccc ttcagcatca 60

accagttgta aatgcagtta ttgacgggga tgatatcata tacagagact atgtggatat 120

cagtatcgct gttggtacct ctaagggact tgtagtacca gtcataagag gtgctgataa 180

aatgaacttt gccgagatag agaagacgat aaactcactt gccaagaagg caaatgaagg 240

aaccatatcc atagatgaga tggctggcgg atcattcacc gtttcaaatg gcggtgtcta 300

tggaagtctc ataagcactc cgattaataa acccccctcaa gtccgccata ctccggcatg 360

cactccgaat tggtgtcacg ttccaaatgg gtaantaagg aaggaaaccg taattgccta 420

aaaccaatga atgttangtc ccaactttac gttaggat 458

<210> 2754
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-G9

<400> 2754

ttttttttt tttggngtta nnaatgctat gaattccaaa ccagataana ttcaantaaa 60

acagagacta attaaggctg ttcaaacagt aataattcgt gcacatganc actaancnan 120

aacgataaca ngaaacaaag ntacagtcag tactcagtag tttgagggca cctacggnaa 180

gcaagtaata ctacanaggg tactacgttc cagtgcttaa tgatgaaaca tcatcagtnt 240

aagcaaacgt gtttttcatc atncaccgta tcactttcac aagtggctgc antcattccg 300

cagcataacg ngaatngact tcgntgaagc agcatcaact tttgcgcaga ggagcaaggg 360

ctaccacgag atgggggacc tctcattgct acgcctttca agagacatc 409

<210> 2755
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-D10

<400> 2755

ttccactgat caagggacag caatcaatta tgttaacggc agaacctcga tgacagaacc 60

agtcaaacag acatttagct actactctgc atacaatgga tcaaatgaca aagaacctct 120

tatacctcaa aactcgggtg cgtatgtttt ccgtccaaat ggtacattcc ccatcaatcc 180

ggaaggacag gttcctttga ctgttataca tgggccgcta gtggacgaag tacaccaaca 240

gattaatcca tggatatctc aagatcacta gagtttataa gggcaaggag catgtggaag 300

ttgaatttat tgttggtaat ataccaattg atgatggaat tggcaaagaa gtagtaaccc 360

aaatntcaaa gttccctgaa aagcaataaa a 391

<210> 2756
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-D2

<400> 2756

aaagaagaga aagagagacg atgctgtgnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntaaganga agagaaaggt 120

aaacaaaacg ccaaagaang ctgaggaagg caatgtacaa cagaangtga aggtagaaga 180

gattgangtt aatacanaca ataaagaaca agatggggtt gttcctaaca agttatatgt 240

tgggggtant ccttatcana gtacanaaca tgagattcgt agctacttta naanctgtgg 300

agtcatcant aaagttgatt gcaaaatggt cctgaaaatg gggctttcag tggtattgcc 360

ttcatcaatt ttggcactga nagatggcgc aaaacgtgcn ttggctttga t 411

<210> 2757
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-D4

<400> 2757

ttctttcgtt gggcaccggt ctgtgnnntc ccgggccgac ccacgcgtcc anccacgcgt 60

ccgcggacgc gtgggcggac gcgtgggtga ttgttcccaa cactaaacat ctcgaggaag 120

cagcctccaa agcaggtgta tcgaattcag atatcaaaca gatgtgtgaa gatcagaaac 180

ttgagaaagt ggtgttacaa gagctagagg ctattgcagc aaccaacaaa ttacanaaat 240

gggaaattcc tgctgccgtc aagttgttcg canagccatg gacacctgac aatggaatgc 300

tcacagaagc catgaaattg aaacgtcatg agattggcaa taagtttgca ccaagagatt 360

gaacgattgt tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480

nnnngnaca 489

<210> 2758
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-D5

<400> 2758

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accctatgac catcatagca ggttacagaa tggcttcgga atgtgctcgt aatgctttac 180

tgaaaagagt cattgataac aaggacaatg cagagaagtt taggtcagac ttgttgaaga 240

ttgcgatgac tactttatgt tccaaaattc tctcacagga caaggaacat tttgcagaaa 300

tggccgtgga tgctgttttc aggctaaagg gaagcacaaa cttggaagct attcagatca 360

tcagaaaacc tggagggtct ctgaaggatt cgtttttgga tgaagggttt aatcctgaca 420

agaaaataag aattgggcaa gctaaacgca tatagaatgc aaatatccta agtaaccaat 480

acn 483

<210> 2759
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-D6

<400> 2759

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ggtcttataa tgtgacgcct cttagtgtcg ttgatccctc gagattctgt gggcagtttc 120

cggttacaca ggcagccgca tttgatgctt tccggtggaa aagacgattt gggtccatta 180

gctatgcttg aagatantgt gaagaagctc aagagtccta aaacttctca gacgcggaat 240

ctaactaaag ctcagataga ttctgcgtta gattctctct ctgattgggt ttttgaatct 300

tgtggctctg tttctttatc tggtctcgag catccaaagt tnanagcttt tttgannena 360

gttggtttac cgatnatctn aaggacaaaa tttgtcancg gaataatgga tttgaagtaa 420

gaacattcna nagcataagc tgaatccang aatccaacac gcaatgttcc ttcangaatg 480

g 481

<210> 2760
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-D8

<400> 2760

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tgtctccggt caatattttt cttcgatccg tcgatcggat attttgactg gagatttaag 120

aagtctgaaa ttgttagatc gcagctatgt cgtactctga ctccgattcg tcgtctcatg 180

gtggcgagta caagaatttc cgacagatta cgcgtgaacg actcttgtat gagatgctta 240

gatctgcaaa gacagggagc tcaaaatcca cctggaaggt actaatcatg gacaaactta 300

ctgtcaagat aatgtcgtac gcctgcaaaa tggctgatat cacacaagaa ggagtttcat 360

tggttgaaga catatttaga cgaagacaac cacttccttc aatggatgca atatacttca 420

tccaaccaac taaagagaat gtcatcatgt tcctgtcana catgtctggg aaa 473

<210> 2761
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-D9

<400> 2761

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caatgcatgg agtcaccggc agagaacaaa gctatgcatt ctctgtcgag tctccggcag 120

ttccttccga ctcatcagca aaattttctc tccccgtgga caccgaacac aaagccaaag 180

tcttcaaact cttatccttt gaagctccac atatgagaac tttccatctt gcttggatct 240

cattcttcac ttgcttcatt tccactttcg ctgctgctcc tcttgtcccc atcattagag 300

ataaccttaa tctcacaaga caagatgtcg gaaatgttgg tgttgcttct gtctctggca 360

gtatcttctc taagcttgtt atggggagca gtttgtgatc tcccttg 407

<210> 2762
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-E10

<400> 2762

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tgagacacct actggtgacg gttttcttgt cggggctcgc cgaatacttg ataaggccag 120

tgatgactga cgtcaccgta gccgcggttt gctccggcct agacgattca tgttctttgg 180

ccgtctatct caccggagta caacaagtgg taaccatatc tactnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncgcttt aactaatctc ttttcgttgg 300

gtgttgatta ctctttaaac tttttatctt tttatctgat ggtgaaaatg atataaaaaa 360

aagacggtag gaatggggac aatggtaatg atgccantga ttggcaatct atcc 414

<210> 2763
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-026-Q1-E1-E11

<400> 2763

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acatagatcg acaaaagtct ctataccttc ttgtaacgtg gtggttaatt aatcatggcc 120

gatcaaatct ccggcgagaa gccggccgga gttaatagat tcgctcttca atgtgctatc 180

gtcgcctcca tcgtctccat catctttggt tacgatactg gtgttatgag tggagcgatg 240

gtgtttatag aagaagattt gaagacaaac gacgttcaaa tagaagttct cactggaatt 300

ctcaaccttt gtgcccttgt cggatcattg ctcgccggaa gaacgtcgga cataatcgga 360

cggcgttaca caatcgtctt gggctcaata ctaatcatgt tagg 404

<210> 2764
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-E3

<400> 2764

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gcaacataac ccacaaaaac tcaatctttg tttcttatct tcaaaaccca tctgatcatt 120

cctccggaat ctttctcaag aacagagcaa atgccgcttg ttaggctcca agttaggaat 180

gtctacggtt tagggcaaaa agagcttcac acaaaagtcg accgtgaaga ccctaaagcg 240

attctcgacg acgtcgccgt ttctggactc gtcgggatct tgcgtcaact cggtgatctc 300

acagaattcg cagcagagat attccatgga atacaagagg aggtaatgat aacagcatca 360

aagaagcaac aaattgaaga tgagattgaa gcaaatagaa gctaaagttc ctacaatcca 420

aaagacagtt gcttgcacaa acaaatcaca ttcatttt 458

<210> 2765
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-E4

<400> 2765

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ttctgttcta ctcttgcttt tatttatttt ccccgtggca ttagcgcagc tgaaatttaa 120

gttttacagt gaatcgtgcc ctaatgcaga gactatcgta gaaaacctgg ttcgccagca 180

gtttgctcgt gacccttcaa tcacggccgc cttgacncgt angcattttc acgactgttt 240

tgtccagggc tgcgacgctt ctctcctcat agacccaacg acgtctcaac tatcggaaaa 300

aaacgccggn ccaaacttta gcgtgagagg gttcgagctg atcgacgaga tnaagacggc 360

actcgaagct caatgtccct ctacggtctc gtgctccgat atantcacgc tcgccatacg 420

tgacgccgt 429

<210> 2766
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-E5

<400> 2766

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aggaacgcta gctatatgct taacacatgc aagtcgaacg ttgttctcgg ggagctaggc 120

agaaggaaaa gaggctccta gctcaaggta gcttgtctcg cccaggaggc gggaagagtt 180

gagaacaaag tggcgaacgg gtgcgtaagg cgtgggaatc tgccgaacag ttcgggccaa 240

atcctgaaga aagctaaaaa gcgctgtttg atgagcctgc gtagtattag gtagttggtt 300

angtaaaggc tgaccaagcc aatgatgctt aactggtctt ttcggatgat cagccacact 360

gggaactgag acacggcccg gactcccacg ggggggcaac aatggggaat cttggacaat 420

gggcgaaaac ccgatcagca atatcccgtg agtgaagaaa gggaatg 467

<210> 2767
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-E7

<400> 2767

ttcattctaa atacatttct tttcactcaa gaaattaaaa tttcgaaaag tttgttaaaa 60

tgaatgcaca catgctcaat ctccttgtca tagtcatttt tgtagtttct ttcgatgtcc 120

aagcactcag tcctcactac tacgaccata cttgtccaca agccgaccac attgtaacca 180

atgcagtcaa gaaagccatg tcaaacgacc aaactgtccc tgctgcgctt ttgaggatgc 240

atttccacga ctgtttcgtc agaggatgtg atggctcagt tctcttagac tctaagggga 300

agaacaaagc agagaaagat ggacctccta acatctcact ccatgcattt taagtgattg 360

acaatgcaaa agaangnatt aagaaagaac aatgtcccgg tatcgtctcc ttgcgccgac 420

attccttcac tt 432

<210> 2768
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-E8

<400> 2768

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gactaaaaaa ccatttccat catcggtttc ctccgataca tctcctcgtc gccgttcttc 120

ggattttcac tcttctgctc naaagggcag tgcttgagaa tcattgaaga angtgatcgc 180

tggtgctgtt ttgataactc aaagccgttt tgctgaaaga gggttaccaa agttagaagc 240

tcaanaactt ggagctgtgt cttctttttg tancatgcca tattttattc agaggctttt 300

caatacttgc aagtcatctc tctcacctaa tggtcctgtg tctgaggagg ccttanacaa 360

ggttcgcaat gtcttggaga aaatcaagcc gtctgatgtt ggtctcgaac aggaagctca 420

attggtgcgt aattggcctg gtcctgggaa cgangcgtaa tggaaaccat cattctctgg 480

ca 482

<210> 2769
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-026-Q1-E1-C9

<400> 2769

aaaaccgggc cctgctgcgt gctagagctc agtctccagc agatgttgca aaccatcctc 60

tcatgaagga accatatgat attacacgcg atagagagcg caagcgggca ttgtccatgg 120

tcctatccca gagtagacat caggagaaga aagatgctga gatacttgct gaggctaaaa 180

gaatcacaga gatgcgattg gccgcacgtc gtgcagaaga acctgatgtg tctgcgaatg 240

agaacgccgg tcttgataaa gctgatgggg ttgttccagg gcgtagtgta tctccaacat 300

ccaattctca acttcctgct actgctgtgg ctccatcaac actaactatg gcaagattat 360

gcctctaccc ttgcttctct gcgcatgctt catgtatact tgagaa 406

<210> 2770
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-A11

<400> 2770

acaatgtctc ctcattgcaa attgaactgg tgccttgcct taaggataac tatgcttata 60

tcttgcatga cgaggatact ggtacagttg gggtggttga cccttctgaa gctgaaccta 120

ttatcgattc gttgaagagg agtggtcgta atctaacata tatattaaat acacatcatc 180

attatgatca cactggtggg aatttggaat taaaagacag gtacggggca aaggtgattg 240

gctcagctat ggataaagac cggattcctg gaattgatat ggccttgaag gatggtgaca 300

aatggatgtt tgctggccat gaagtccatg ttatggatac tcctggccac acaaaaggcc 360

atatcaagct tatactttcc aaggatnacg aacgattttc 400

<210> 2771
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-A4

<400> 2771

aattctttcg tcgncaccgg tcntnnaatc ccgggtcgac ccacgcgtcc agatngggaa 60

tcaaacatcg cctccgtctc tcatttcaaa cgctatctcc atctccttcc tccgccgccg 120

ccatggaatc tccgaagaat tctctgatcc cgagcttcct ctattcatca tcttcatctc 180

cgagatcttt cctcctcgac caggtgctca attccaactc caacgctgca ttcgagaaat 240

ctccttctcc ggccccgcgt tcctctccta cgtcgatgat ttctcggaag aatttcctta 300

ttgcatctcc caccgagcca gggaagggga tcgagatgta ttcacctgcc ttctacgctg 360

cttgtacctt tggtggaatt ctcanctgtg gncctantca catgaacgtg antcctcccg 420

atttcgtcaa gtgcaaaatg caaantgatt caagcgaaat ncaagaacat ctcgtctggg 480

tttt 484

<210> 2772
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-A6

<400> 2772

gccctcggta ccganacatn aattcgcngg ncgacccacg cgaccanatt ttcacaaact 60

gcaacaaatt ggatcaagtt gcagaaagta acatcatatc tttcacttgg aggaaaagcc 120

agatgatgtc agatgctctg aatcgctaca atgggggatt tgttttggaa tctttggtca 180

gcacttgctt tcctggatgt gaagtacctg catcattcga tcaccaagcc tatggagcat 240

tgttacagac gaaattacct cggcactggt gtgatagtag gcttactggg atagctttat 300

gcgctgttan attgtttccg gactaacaac atcaaangca atccgttcct gggtgaaatg 360

cacttgtgaa gtttccggaa ctgaaagaat tgggccaatg gttatcaagn cttttaagtt 420

tccaattggt tggagggttt ggnnccnaaa ccaaggctat taagccaacg aactaattta 480

agntccgaa 489

<210> 2773
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-B11

<400> 2773

gcttatcgga gagatttatt ccggtgagaa aatgttactc cttcgtcgtt attccggcgg 60

aagtctttac tcgatcctcc ctatcagagc ctctattgaa tctactattc gtcatttcaa 120

cagcctcgag cctttgcaaa gctctgattc gactccaact aaaggcgatt acttcgccgc 180

gatcaaccac gttgtcaata tcgtccgccg cgagattcac ccggagagat cattgaacag 240

tctccgtcta cctgtaacct ccgaattcgt gttcagagtc ctccgcgcaa cttctcgttc 300

ctccaacgat tctctccgat tcttcaattg ggctcgatcg aaccctagct acacaccaac 360

ctccatggaa tatgaagagc ttgctaagtc ctancttcac ata 403

<210> 2774
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-B12

<400> 2774

ncccacgcgt ccgcgatcta tagagacgaa acaaaaagag agatcgtacg caaaagtttc 60

cgatatggct cgctcgtttg gagctaacag taccgttgtg ttggcgatca tcttcttcgg 120

atgtttattt gcgttgtcct ctgcaataga agaggctacg aagttaggat cagtgatagg 180

gatagatctt ggtactactt actcttgtgt tggtgtttac aagaatggtc atgtcgaaat 240

tattgccaat gaccaaggaa accgtattac accttcatgg gttggtttta ctgactctga 300

aagactcatt ggtgaggctg ctaagaatca agcagctgtt aatccagaga ggactgtctt 360

cgacgttaag agattgatcg ggcgaaaatt tgaggataaa gag 403

<210> 2775
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-B2

<400> 2775

ccacggtctg gnaatcccgg gncgacccac gcgtccnatt ttcttaccac tcaaagagtg 60

cgcactcatt atcatcgttt gaaactaaac atggcgacgg agaaaagcaa gattctggtg 120

atcggaggaa ctggttacat cgggaaattc ctagtagaag cgagcgccaa agctggccac 180

tccacattcg ctctcgttag agaagcaact ctatccgatc ctgtcaaggg caaaaccgtc 240

cagagtttca aagatctcgg cgtcacaata ctacacggag atttgaatga tcacgagagc 300

ttagtgaagg ctattaaaca nggttgatgt tggtgatatc caaccgtttg ggaagcaatg 360

caaaatcctt ggggttnaaa ccaaagatta atttccgcca tcaaaagaan cccggttatg 420

tncaagaaga attccttggc cggtcctgaa gttttggggg ttggatgttg gataanggac 480

caattgccgg ttgaanccaa cc 502

<210> 2776
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-B3

<400> 2776

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gtaacggtga ggtttggatc taatcgaatc aacgatggag gttgcttttc catcttcgcc 120

gccggtgaaa tgcatcgccg atgaaagatt aacagagatc tccatggatt tcaccaaatt 180

aggattccca gaagaagatg aagaaattaa aaaattggag agatcgtgga gtaagctcnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngtttt cgtttgcttg 300

tgtaaacgga gaaggatctc caattaccgc tgatgaagct tttgaagatg gtcaaattcg 360

tcctgtgttt cctctgttta aacgtgatct tctcttcgag tacgaaaacg aagatgacaa 420

aaacgaca 428

<210> 2777
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-B4

<400> 2777

ncaccggtca tgaaatcccg ggncgaccca cgcgtccgnc anattatcac aaatcacaag 60

catgactcaa aacaacaaca cttgacttca caactggttt ttccctcgca cgagaattga 120

agaaaataag aagaagaaac actaaacaaa aaagtatggt ggaattggag attgtgtggt 180

tggttagagg cgcttggatc actgtttgga tcgtctctat acttcctttg gtgattgctt 240

cgatacccac ttcaaagctc aactcttttc gtgaactcgt tttgagtttc gctggtagag 300

gcaagattct tcacccttct tctcaaaaag tttacaattc ctcaaaaatg ctttgcacac 360

ttttatgtta ntggantggt gtggacaact cccccgcttg ctgcaacttg ggtggtatgc 420

ctgcaaaatg gggcctttan cctccgaagg agntccaatt atccgacaat tgca 474

<210> 2778
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-026-Q1-E1-B6

<400> 2778

ccagggtaag gggaggaaca gtcggaagag caaagaaggg accagaactt aaacttggag 60

acataaccat cgtcaaggat gcgattacgc ctggaagtta cttcggaaac gagattcctg 120

atagcatagc gatcatcaaa tgtcaccagg acgaagtgtt ggtgctgccc gaaactgcta 180

aagtgcttgc gtattccaag aactacgagg tggagatgta ttcgattgag gatcatttgt 240

tctgtatcca aggacatcct gagtataaca aagagattct cttcgagatt gttgatcgtg 300

ttcttgctct aggctacgtc aaggttggtt ttatttctct tttctcttaa ccttgatcaa 360

tttacagaca acaataacat tgaaaaactt ggatatagta catatgggtg ggttttggat 420

taaataa 427

<210> 2779
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-B9

<400> 2779

ncgagttctt ctctatacca tatccattgt ttgctagctc agcatacgat tgccgtgatg 60

tctcttgcag tgaggctact acaattggtc tgatcaaaac ccgagacact tatccatttg 120

gtgtggatcc tgtgtggcat ggtacccgca gtgagctacc attcctaaat tcgcttaaga 180

tgaaaatgtc aattcttatt ggagttgcac aaatgaacct cggaatcata atgagcttct 240

ttaatgcaaa attcttcaaa agtgctgtaa acatatggtt ccagttcgtt ccccagatga 300

tattcttgaa ctgcttgttt ggctatcttt cggtcctcat catcataaag tggtgcactg 360

gttctcaagc agatttatat cacgtaatga tctacatgtt tct 403

<210> 2780
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-C5

<400> 2780

gaagctggtg atgtacagcc taattctttt gttttcagta gactcttagc tggttttcgc 60

gatagaggtg aatggcagaa gacatttcaa gttcttaaag agatgaagag tatcggtgtt 120

aagcccgata gacagtttta taacgtggtg atcgatacct ttgggaagtt taattgtctt 180

gatcatgcca tgacgacttt cgatagaatg ttaagcgaag gtattgaacc agatagggtg 240

acttggaata cgcttattga ttgtcattgt aagcatggtc ggcatatcgt agcggaagag 300

atgttcgagg cgatggagag gcganggtgt ttgccttgtg ctacaactta taacattatg 360

atcaatagtt atggtgatca agaaagatgg gatgatatga aaagantgtt gggaaagatg 420

aag 423

<210> 2781
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-C7

<400> 2781

attatcnaag ccgctcaggt accgaacnna gaattcncng gacgattcac cgattttnct 60

caaaatgcta atcaaatccc aaagattgac tcttttctct cctctcttgt ccaaaacaag 120

acggatcccg gttaactccc accaaacact ggtcgcagaa tcggtgataa ctcggagaac 180

actcggtgcg atcaccgcaa ctccgagttt tcataaaaat ccggtggtga ttcgacggag 240

gatcaaatta gagagagtta cgaggaactg cgtcagaatt gatcggnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnta gtgaagttca caggtccggc gatggggatg tggatttgtg gaccgttgat 420

gagtctcatc gacacggtcg tcatcggcca aggaagctcc atcgaactcg ctgctcctgg 480

accgg 485

<210> 2782
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-C8

<400> 2782

gagagaagaa gatgtctata gaggaagaga acgttccaac gactgttgac tcaggagctg 60

ccgatacaac ggtgaaatct cnggagaaga aaccggcggc gagaggtggt aagtctaata 120

agacgacgan ngctagtagc aacgaataag cctgtgaaag ctgctgctcc aacgaanaag 180

attacaactt cctctcaccc tacctatgag tgagatgatt aaagatgcga ttgtaacgtt 240

gacagganag aactggatcn agtcaatann cnattcagaa attcatacga ggagaancat 300

aaatcactgc ctcctacttt tangaanctt ttgcttgtga atctcanaga gacttgttgc 360

ttctgacaaa ttggttaaag tcaant 386

<210> 2783
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-H7

<400> 2783

ttctacgcnt tcggtaccga ncagtgaatt cnccggccga cccacgcgac caaccacgcg 60

tccgcaaagc tgcttgtggt atagtcaaca taccaaagat tcttgatatt gatgaatctg 120

acaaagataa tcatgtggct gcagtggagt atgttgatga tatgtactcg ttctataaag 180

aagttgagaa ggagagtcag cctaagatgt acatgcacat tcaaactgag atgaatgaga 240

agatgagagc gatcttgatt gattggttac tagaagttca catcaagttt gagcttaacc 300

ttgaaactct gtacctcact gttaacatca ttgatcgatt cctctatgtg aaagctgttc 360

ccaanagaga gttgcaggta gtgggaatca gtgccttcca aatatgaaga natctgggnc 420

acctcaagtt aacgatctgg tgtangtcac gggcaatgct tacagttaca accagatttc 480

naggggt 487

<210> 2784
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-F2

<400> 2784

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cgcatatcat aaccgccgtg attggatctg gtgttctatc gcttgcntgg gctataggtc 120

aactcggttg gatcgcaggt cctacagtga tgttgttgtt ctcttttgtc acttactact 180

cttccacgct tcttaacgac tgctacagaa ccgganatcc tgtctctggg aagagaaact 240

atacttacat gggcgctgtc cgattaatcc taagtggctt tangttcaan gatttgtggg 300

ctgaatcagt aattgaatcc gtttggtatc aangtcnggt acacaatccg cagcatctaa 360

aaantatgat ggcgatnaaa aaggtccaaa ctgtttccaa caagaancng aagggaaaaa 420

acccgtgtca natgtcnanc aatccataca tgatcatgtt tggtgtgacc caaaatn 477

<210> 2785
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-F4

<400> 2785

taaaaatgct gatgtcattc aggaaaagaa ccatatccca tttttccnat gttgcatacc 60

aaggggcttt gctantggna agcctttgat gaagatgcag catctgtgag attatttgct 120

gancggggaa tgggagtttt ttgttgctca gtcatatagt aaaaatttag gtttgtatgc 180

agaaagaatt ggggcaatca atgtcgtgtg ctcctcagct gatgctgcta caagggtcaa 240

gagccagttg aaaaggattg ctcggcctat gtactcnaat ccaccagttc atggggcgag 300

aatcgtggcc aatgtagtgg gtgatgtaac tatgttcant gaatggnaag canagatggn 360

aatgatggca ngaagaataa aagacgttag acaanagctg tangatancc tcgtttcaaa 420

agacaa 426

<210> 2786
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-F5

<400> 2786

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agggattatt ctccgacttt tggtcagcct gcttcttatc tacgtgcaag aggagctcgg 120

tctgagcttg gagaatttgt ggagtatgat cttgacaatg aggatgaaga ctggctttat 180

gagtttgata aggataagaa agaacttcca cctgaaaagc ttgagatcat catttttaaa 240

ctagaggtgt tggatcacaa gacgcgggaa agagcaggag ttattacacc tactctcggc 300

tctccagttc ctgtgctttt gcagtttgat gctgcttctg atgtgctgca agtactgtcc 360

attaattatg gaaccttcca ggcgatcttc aactactgga aagaaaagcg taaaagatgg 420

cagaagccta tcttacggcg tttacagcct cccccaacgg ttaatgaca 469

<210> 2787
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-F7

<400> 2787

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cggcgtgaga atgacgtcac cagaggcgtc ttcaacatcc tccctcgcca ccacaagtgt 120

ccacgtaagc gctctcgang gactcgtgaa cgtgaactct ctcttcacca tcgccgtctt 180

cgttggtctt tccttagcga ctccaggaca anacagcctc taacaacgat ccagctgcga 240

cgcaagtgct gacgtcgcca agaagctact ggtcttcgaa gtcntctcct tcagcttctt 300

cctcttctcc tctcttgtan ctcagggtct taagcttgcc ttaaagcttc ntaatagcaa 360

ngacgtcaan ganattttca gnagtcacat cattatccan gtttttgana atggggaaat 420

ga 422

<210> 2788
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-F8

<400> 2788

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acangcgcag atgtcacnca agtgtcttac gcggttggta cagactcaan gattggtccc 120

aanttcttga actcgagtgt tggnttcggt ggttcgtgtt tcnanaanga cattctgaat 180

cttgtctaca tctgtgagtg naacggactc ccggaagtgg cagagtactg gaagcacntc 240

atcaagatca atgactacca gaanagccgg ttcgtgaacc gtgttgtttc ntccatgttc 300

aactctgtat caanacaaga agattgcggt tctcggtttc gcattcaaga nagacaccgg 360

tgacacaaag gggagactcc agncatcaat gtgtgcaagg gtccttttag aatacaaagc 420

aan 423

<210> 2789
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-F9

<400> 2789

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gttgagatca aacacatctt gttgccgcct tcaagaagag agtttcgaga catttacgtg 120

gttttcgagc ttatggaatc tgatttgcat caggttatta aggcaaatga tgatttgact 180

cctgagcatt atcagttttt cctctatcag cttcttcgtg gcctcaagta tatacacaca 240

gctaatgtct ttcatcggga tcttaaaccc aaaaacatat tggcaaatgc tgattgcaaa 300

ctcaagatct gtgattttgg acttgcaaga gtcgcattca atgatacacc gactgcgata 360

ttctggactg attaagtanc tactcgatgg tacaag 396

<210> 2790
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-G1

<400> 2790

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tgaatttgcg aagtatggga gacgctagag acaacgaagc ctacgaggag gagctcttgg 120

actatgaaga agaagacgag aaggtcccag attctggaaa caaagttaac ggcgaagctg 180

tgaaaaaagg gtacgtggga atacacagtt ctggattcag agacttcctt ttgaaaccgg 240

agcttctcag agctattgtt gactcaggat ttgaacatcc atctgaagtg caacacgaat 300

gtatccctca agctatcttg ggtatggatg ttatctgcca agcaaagtct ggtatgggga 360

agactgctgt gtttgtcctg tctactctac aacagattga accatctcct gggcaagttt 420

ctgnacttgt ccttgtg 437

<210> 2791
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-G10

<400> 2791

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gcggtatgtg gctatgaatg gnatcacatc attcaaaaga taccaaatag caaaggtgta 120

cagaagggat aatccatcta aagggagata cagagagttt tatcagtgtg attttgatat 180

cgctggtttg ttcgaaccaa ttggacccga ttttgaaatt gtcaagatat tanntgaact 240

cctcgatgag ttagaaatan gagattatga ggtgaaactg aatcaccgca agttgcttga 300

tggaatgctg gagatatgtg gagtaccacc tgagaaattn anaaccatct gttcnagtat 360

ccacaagcta gacaagcaat cgtttgagca antgaagaaa gaaatggtgg anganaangg 420

cttgtcttca nagattgcag ccagaantgg caac 454

<210> 2792
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-G11

<400> 2792

cttattcgnc gccacggtca canaatcccg ggccgaccca cgcgtccaaa tagcttcaca 60

atggcatcgt ctggatcagc cgacgaagat ttccagtctc gcgttgcgaa gatcttcgga 120

tctctaccct tctctcgtcc ttcgtcttcc aagttttcca cgtcgtcttc tgctccggcg 180

tcgcggcagc aatcggggtc ggtgtggact ctctccgaca cagaggtaga gaagcgggag 240

tggaagcgag attcgtacga tagagacgag attccttgtg cttcatcctt tgacgagctc 300

ttaaaacagc agaagccttc cgaggatgat ctcaaagata ttgattgcgg cgaggatttt 360

gatggtgtgt ggagtatcag agcctccatg ggccttgatc gcactctcga tgacgaagca 420

gangaagatg aagtatgata aaagttgcac taagggaa 458

<210> 2793
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-G12

<400> 2793

ttattcatca tttcatctgt tcgaatcggg caattttcgt ctggagaaat ctggagatag 60

gattttgatc gatttctaag ctctaatctc agtttttgg gtagctccgg tgatccttga 120

gatggcgggt cagaatccta acatggatca attcgaggcc tacttcaaaa gagcagattt 180

agacggagat ggtctgatca gtggtgccga agctgttgga ttttttcaag gatctggttt 240

gtctaagcag gttctcgccc agatatggtc gctttctgat cggtcacaca gtggtttcct 300

tgatcggcaa aacttttata attctccgag acntgtaaca gttgcacaga gcaaagagag 360

atntgacacc tgagaatgtt aatgcaaca 389

<210> 2794
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-G4

<400> 2794

ctacggtcac aaatnccggg gccgccccac gcgtcnacac tcgtctccat tttaatagtt 60

tttcttctcg gaatcacaaa tcttcggctt cttgttcctt ggcgtgtgtg tgtgttgttg 120

aatggctctt gttcagcgga ttccaatttc ctcctccagt attcggaatt ggcaacaagc 180

gaggaccaat ttgactccta tttgttgttt acattacaat actgcatctt cttcttcttc 240

acccttttaca gagaagcact ctgtggagag ataccaaagg gatcaatggc tgtacaaagc 300

ggttgaacca acgccaccat cgactccatc tccatcgcca tttgaagatg aagtctttgt 360

tagggaaaac gacattgcat cgcagctgcc tgagctgaag aagcttttgg cagtgctgaa 420

agagaagaga gttaaaggat gcaaaggtgg tgattgtgga ccaggagatg 470

<210> 2795
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-G9

<400> 2795

gacntttcta aaaatgaaaa gcctttcttt cttcttcacc atcctcctct ctctctcgac 60

cctcttcacc atctccaacg cacggaagtt taatgtcgga ggcagtggcg cgtgggttac 120

aaacccacct gaaaactacg aatcttggtc tggcaaaaac cgtttccttg ttcacgacac 180

tctctatttt agctacgcta agggagctga ctcggtgcta gaggtgaaca aggctgatta 240

cgacgcttgt aatacaaaga atccgatcaa aagagtggac gatggagatt ctgagatctc 300

tcttgatcgt tatggtccgt tttacttcat cagtggcaat gaagataact gtaagaangg 360

tcaaaagctt aatgtcgttg tcatatctgc n 391

<210> 2796
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-H2

<400> 2796

cacggtcaca acatcacggg tcgacccacg cgtccagaan cagctcatta tctcaactgt 60

tattatgact gttggtattg ctattgtgtc atgggttggc ttaccgacct cctttaccat 120

cttcaacttt ggaacacaaa aagttgtcaa gaactggcag ctattccttt gtgtttgtgt 180

tggtctttgg gctggactca ttattggttt cgtcactgag tactacacta gtaacgccta 240

cagccctgtg caagatgttg cagattcatg cagaactggt gcagctacca atgttatctt 300

cggccttgct cttggttaca aatccgtcat tattccaatc tttgctattg ctatcagtat 360

attcgttanc ttcagctttg ctgctangta tggtgttgct gttgctgntc ttggtatgct 420

cagtacaatt gccactggtt tggcaattga tgcttaaggg cccatcaat 469

<210> 2797
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-H3

<400> 2797

nacccggtat gatccaagtc ttcctcggcc acagcggagg atttgatgtc gaagggcatg 60

agcttcctcg gcttgtgtac gtgtcccgtg agaagcgtcc tggttttcaa caccacaaga 120

aagctggcgc catgaatgcc ctgcaaggcc gtgagggaag caatgtgttt tttgatggat 180

cctcagattg gaaagaaggt ctgctatgtt cagttccctc aaaggtttga tggcattgac 240

acaaacgatn gttacgccaa cagaaacaca atcctccttg ataacaataa taaaagncca 300

aatggaatcc aaaggccaat ttangttggn aactgggtgt gttttcaaaa caaaaactcc 360

gtaanggtaa taaacaacca aaagggccna aacttcaaaa gataanaaac ngtggttgtt 420

gncttgctt tggggccccc 440

<210> 2798
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-025-Q1-E1-F12

<400> 2798

cgccggcgct catcacccac aaaaatcacg ccaatccaaa gatacagaga cataatcaat 60

ctacctccga gaccactgtt tcatggactt ctcgcatcaa tctcctcacg cgcaatggtc 120

gattagcgga ggcagcgaag gaattctccg atatgacact cgccggcgta gagcctaacc 180

acatcacttt catagctcta ctctccgggt gtggtgattt tacctccgga agtgaagcct 240

tgggcgattt gcttcatggg tatgcttgta aacttggtct tgatagaaac catgtcatgg 300

ttggcaccgc aattatcggc atgtactcca aacgcggccg ttttaagaag gctagattgg 360

ttttgattac atggaagata aaaatt 386

<210> 2799
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-D2

<400> 2799

nccggtccaa aattaacggg tcgacccacg cgtccgaaac aactctcatc aatataaaga 60

gaagagagtg gtagagttat atattacaca cataaactta gatatagtag tgttatattc 120

ttgattaagt aataaagatg aaaggtggaa gcatggagaa aattaagccg atattggcga 180

taatttcact gcaatttggg tatgcaggca tgtacatcat caccatggtc tcgttcaaac 240

atggcatgga ccattgggtt cttgctacat accgtcatgt cgtagccacg gttgtcatgg 300

ctccctttgc tctcatgttc gagaggaaaa ttaggcccaa gatgacacta gcaatattct 360

ggaggcttct tgctcttgga atattanagc ccctcatggg accaagaatt tgtactacat 420

aggattgaaa aacacatcag catccgtaca cttctgccct ttttttaaaa 470

<210> 2800

<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-D3

<400> 2800

tagttggccn ggccggtcca aaataacggg tcgagccacg cgtccgacca aaaccccaaa 60

accaactaaa actgaaaaaa caaacgttga ctttttgact aaccaccatc ctccgccgta 120

aatcatgatc gccgccgttt acactcnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnncaaagcc acgatttcaa tctctcccca aaccttaaac cgatccggcg acatagtcgt 240

gatcaaatgg tccggcgtcg aatcaccgtc cgatctcgac tggttaggaa tctactcgcc 300

accggactct cctcacgatc acttcatcgg ctacaaattc ctctccgatt cacccacgtg 360

gcaatccggg tcgggttcga tttcacttcc cttaaccaat cctccgatca aattacactt 420

tccggatctt cattggacca atccgaaata nacccgaaac a 461

<210> 2801
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-D5

<400> 2801

gnttcttcct tcttcgtcct ttgttttaat tctctcatat cacttacgaa aagaagaaag 60

aaaaaaaaca ccaaaactaa agagaaattt cgttatcact ctcttgccaa aactcacata 120

catataatca tatatcatcg caaaatgtct tgcctagaga tttataacaa agacacgatg 180

aagaagaaag aaggagaaga agaaacaaga gatgggacag tggattacta tggtcgtccc 240

tctattcgtt ctaactcagg ccaatgggtt gctggcatcg tcattcttct gaaccagggg 300

ctgggctaca ctagccttct ttggagttgg agtgancttg gngctcttcn naacccgcgt 360

tttgcagcag aacaangcag acgcagtaac aactttagca atgggccagg gacngtttaa 420

a 421

<210> 2802

<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-D9

<400> 2802

gaaagccaat gagaagctga cgaaaaaccg cgttggttaa attacatata aatgggtttt 60

gtgaattcaa ataaagacga agacaaaaag tttgagactt tatctctact ttgacccgac 120

cagcgaaagt gtaaattgaa agatagatag aaagaaagag ccaactttaa aagcttagcg 180

gttgatttcg aaatctcgtc gccggcgcgt ggagtctttt cgtcggacaa caacaagaga 240

aaagagattt gtggtgttct tctgcttaga attgttgttt tccatctccg gcagtgagat 300

ttggtggaaa aattttgatt tgtgatcgat ggttaaggaa acagagtact acgatgtgct 360

cggagttagc ccaactgcta cagaatctga gattaagaaa gcttactaca taaagggcac 420

cccaagttca tcccngat 438

<210> 2803
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-E1

<400> 2803

ttacgttgcc nggcccggtc canaattaac gggtcgaccc acgcgtccgc tcagcttcgt 60

ctcattctcc ttctcgatct ctccttttac tcaccattcc aaattcccta aaccccgatt 120

ttggggaggt tttacaaaat ctatcgacgt agttggatac agttcttcga ttctgattcg 180

attttaattt tatgtcaagg gaatttgcct agtattcgca gagtgtgatc atatgaaatc 240

tcgagcgagg cagtgtctgc tggtttgttt gctctgtctt tccttaacga atctctccta 300

tggagaaaat aagttcagag agcgtaaagc caccgatgac gagctgggct accccgatat 360

tgatgaagat gctttattga atactcaagt gcccgaaaaa attgganctg cgatggcaaa 420

ctgaaatcac ttccaagcgt taagctaanc cttgattgct gaataacatt ggaaangggg 480

<210> 2804

<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-E10

<400> 2804

gcaaagagtg gctgcttatg cagcgaaacg cgttcttcta tgttttcaag actgtccaga 60

tcgtcatcat tgctgcaatc acgtctacac tcttcctgag aaccgaaatg aacacaagaa 120

acgagggtga tgctaatctc tacataggag cattgctatt tggaatgatc atcaacatgt 180

ttaatgggtt tgcggagatg gctatgatgg tttcaagact ccctgtgttc tacaaacaga 240

gggatctctt gttttatcca tcctggacct tctcacttcc cactttcttg cttgggattc 300

caagctcaat attagaatcg acggcttgga tggtggtgac ttattactcc attggttttg 360

cacctgaccc agccgctttc ttaaagcant tcctccgggn gttccggatc aacaaatggg 420

ntgcaacc 428

<210> 2805
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-E11

<400> 2805

gcccacgcgt ccgcccacgc gtccgcggac gcgtgggttc tctttgtcac aatgaatnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnagcc tcaaaagaac aanaacttgt gaaccaagaa aaggttgagc aacccccctta 420

aaaacnggtt ttcggtc 437

<210> 2806

<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-E3

<400> 2806

ttacgtttgc cnggccggtc caaaattaac gggtcgaccc acgcgtccgc ccacgcgtcc 60

ggatcatgcg aaggaatgct cctcaggcgg aggatactat cgctctctgc gtcgtcgttc 120

agaaacttta cttccggtaa caacggcgac gctattccgt tctctacctt cacgaaacct 180

tcttcttcaa tcgctcccgg agatttcctc gtccgtgaat ggaaagactg gtttaagcat 240

cgagatgtga aacagagcca ccaattaatc gatcgaatct ttgacatcct tcgagctcct 300

tctaacgatg gagacgatag agctttttat ctccacctct ccaatctccg acttcgtctc 360

actgagaaat tcgtcctcga cgtgctttca cacactcgtt aagaataatc ctctgttgtc 420

tcaaaattcc tccaattggg gctgctccgt cagcctgggg tttcatcaca cggcgtgcta 480

aaccnttttt tttt 494

<210> 2807
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-E4

<400> 2807

ttacgttgcc nggcccggtc canaattaac gggtcgaccc acgcgtccga acacatctca 60

tttctccgct gtttcgtcgg caaatttcc catttttgat tccgaagata atagatatta 120

tcaacagagg ataaggataa aacccagaac aatcattata atttagtggt gaagttgacc 180

aaatttataa actgatccaa ttttaaaatc taagagatat ggagaacatg gacgatttct 240

caccggagaa tgttttagca ccaccaccac cacctcctcc aatgaagaag tcaagcatct 300

gtttatgcaa agaagcaata gctttgtttc taaagctacg agagattcat gggatcgtat 360

gttcgacgaa gctcatggag cctgatgttt tggattcata ctgatgataa tgggttggat 420

ttacgcacat tctaatgtca tccggatngc ttcagatgta tccagaagga atggaaattt 480

gggaaaa 487

<210> 2808
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-E5

<400> 2808

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cctccatttt tctcaaggca atctctctct ctctgcctca tctcanaaac ccattacacc 120

aaaacctcat cgtanagaga gaaacacacc aaccattgtt acactctaag agaagagaag 180

agaganggaa aaatggacgg tgtatcacca aagtttgtgt tgccggngac attcgacggc 240

gtgaggatng anatcacagg caaactaggc atgattggga gcttgtaaaa gcaccagtga 300

tngtcccnct tctnaattag cgtttanatc cgtttgccta agtctgtcaa gcnttaagtg 360

aaagggttac attgggaatc gtcatccgtc tctcaaant 399

<210> 2809
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-024-Q1-E1-E8

<400> 2809

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aagaattttc ttacttttgt tctagttttg ttgagaaaaa gatgcatccg atcttcgatg 120

ccatccttca aaatgacctt ccagcttttc ttggtttggt ggaagcgaga gaatcttccc 180

tggaggagag aagcgaggaa cagaacacca acaacacggt tttgcacgta gctgcaaagc 240

tcggtcaccg agaactggtc gccaagatta ttgagctccg accttccctt ctctcttccc 300

gtaacgcgta cggagacaca cctttgcatc ttgctgctct tcttggagac taaacatagt 360

tatgcagatg ttagacactg gattggaact atattccgca cgcaataaca aggaaccaaa 420

<210> 2810
<211> 430

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-F11

<400> 2810

tttactcctc ttaacactcc tcgaaacaaa aagaagannn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaaa 120

attaatctta ctcgccggaa cttttctctc tcacaancgc ttcaaacaaa atttctaagt 180

ttatccgaat atgaataaac tagttgtaga aatcgttgac gctagcgatt tgatgccaaa 240

agacggacaa ggctcagcga gtcctttcgt agaagttgaa ttcgacgaac agcgtcagag 300

aacgcaaacg cggtttaaag atctaaaccc tcagtggaac gagaagttgg tttttaacgt 360

cggtgacttg aaccgtttga ataacaagac ggtcgacgtc acngtttacg atgaccgccg 420

tgataatcag 430

<210> 2811
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-024-Q1-E1-F6

<400> 2811

gcgccgacac cgtttaactc cgatggttcc cccgccgtct aatccgcagc aggttcagca 60

gttcctctcc tctgccctct cccagcgcgg cccatcttca gtcccctacg aagagtccaa 120

caagtggttg atccggcaac atctacttaa cctaatctct tcttaccctt ccttagagcc 180

caaaacggca tcgtttatgc acaacgatgg tcgctccgtc aacctccttc aagcagatgg 240

tacgattccg atgccttttc atggagtcac ctataacata cctgtgatta tctggctcct 300

cgagtcatat cctcgtcatc ctccttgcgt ctatgtgaat cccaccgctg atatgatcat 360

caagcgacct cacgcacatg tcactccttc tggtctcgtt tctctccgta ccttcaagaa 420

aaaatttttg 430

<210> 2812
<211> 421
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-F7

<400> 2812

gcgtcaacag atttcatact gtggaattta acagctgaaa caaaggttac acaaatctca 60

tgtggtggct ggcgccgacc ccattccttt tatctcgggg aaatccctga gtggcaaaac 120

tgttttgcat atgtgaagga tgatgtcatt catattcata gacactgggt tggaggacag 180

aagaccaaag tctttcctct aaatttgcat acacagtttc atggcagaga attgcattcc 240

ttatgcttca tctctacaga tacaaaagcg ggattcgatt ctgaagaaag taaaatatct 300

gatcggtcta gttggattgc aacagggtgt gaagatggat ctgtgagatt gagtaggtat 360

gcatctgant ttggaaattg gtcaacatca gagcttttag gagaacatgt tgganggcca 420

a 421

<210> 2813
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-D12

<400> 2813

gaatgaagag ggactaaccc actttgacga aattctacaa gaagcagatg gcattattct 60

ttctcgtggg aatttgggta tcgatctacc tccggaaaag gtgtttttgt tccaaaaggc 120

tgctctttac aagtgtaaca tggctggaaa gcctgccgtt cttactcgtg ttgtagacag 180

tatgacagac aatctgcggc caactcgtgc agaaggcaac tgatgttgcc taaatgctgt 240

tttnagatgg gaattatgca aatcctcctt gggtgccgaa gaccctccgt gggattggaa 300

ccctggttga aaaccaataa tcaactggtt gggtaaaaat ccggttgtga aggcanaaaa 360

aantttcaac caaaaatttg tccttaaaaa anacnggtca antnagnttg ggaaancaat 420

ggaccacttg gganccaatg cttctccggc 450

<210> 2814
<211> 436
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-B12

<400> 2814

gcccacgcgt ccgcccaaaa gcatacaata caatgtctac tcttgtttta ttcctccaac 60

ttttttccat cctaccatta gcacttgggt tgaaccaccc aaattgtgac ctgaccaaga 120

ctcaagacca aggctctacc ctaagaatct tccacataga cagcccttgc tccccccttca 180

aatcatcatc cccactctca tgggaagcgc gtgtgctcca gacgctggct caagaccagg 240

cccgtctcca gtacctgagc agcctcgtcg ccgggagatc tgtagtcccc attgcctcag 300

ggcgtcaaat gttgcaaagc actacataca ttgtcaaagg ctttgatngg tactccggct 360

caagccgctg ctcctagcca tggacacgag cagtgacgtt ggcttggatt cctgctccgg 420

ntgcgttggt gtcctt 436

<210> 2815
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-B3

<400> 2815

acgttagctg ccnggccggt ccaaaataac gggtcgacnc acgcgtccgc tcaccatatc 60

cacaatcctc aagctatctc ctttgtgtcc ataatcgaaa cgctttttgc gatttatcct 120

aatctttttt ctatcttctg ctacaaattt ggttcttttt tggttgaatt tggataaaat 180

cataatctcc tcttcaattt tcttgtgaaa tggaagtttc agtgattgga aatcctcaag 240

cgaggatctg cagagcagaa ttagcttaca gagagcttgg atttagattt ggctctgatg 300

taatctccgg tgaatcgaga aatagggtta gtttctgcaa ccaaagctct aaatggaaag 360

agatcgcgat acgttgctct tcgagatctg tcaaatgtga agccatcgtc tccgatgacg 420

cttctccgtt tccaaatcca ctccaaaatc taaatccgct ccgaagaagt ggtaaaaaat 480

tttttaaaat 490

<210> 2816

<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-B4

<400> 2816

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atgatcttct cctccgatca ttagtctctt taatctttct cagcctcttc ttgttcgtga 120

tctctcttcc tccggaaaaa gatgtcggcc ggtaacggaa atgctactaa cggtgacgga 180

gggtttagtt tccctaaagg accggtgatg ccgaagataa cgaccggagc agcaaagaga 240

ggtagcggag tctgccacga cgatagtggt ccgacggtga atgccacaac catcgatgag 300

cttcattcgt tacagaagaa acgttctgct cctaccacac cgatcaacca aaacgccgcc 360

gctgcttttg ccgccgtctc cgaagaagag cgtcagaaga ttcaacttca atctatcaag 420

tgcatccgtt aacatcgtta acgaagagan tcaaggaccc aaaaaaaang gggg 474

<210> 2817
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-B7

<400> 2817

gcccacgcgt ccgcggacgc gtgggcccac gcgtccgaaa aaaagaaagg aattttctct 60

gaaacgtcac gaacgtgtga attgggttaa aaaattcatc tcattgatcc aaacttgaaa 120

ccctaatttc gaatctcttt gctgatttgg tgagatctca atttcggaaa gaagatgacg 180

aaggatttcg cagttccacc tgtagttttc ccctccggtg gatcttcagg cggtgctaat 240

gtccagcaac gaagattccc agcgacaccg tttcaaccgc cgcgtccctc ttcttccgca 300

atccctttca tgtcattcga cattggatcc gcagccgcgt cttccgctac acctgccgga 360

ccattcggcg ggacatcgct tcctcttctt cntttggtgg aggtcacctt cgtttgaaga 420

aatggaaaag ggg 433

<210> 2818

<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-024-Q1-E1-B8

<400> 2818

gaaaccttct ttagcttctt ccgtagctga cgtctctctc tatctgtctc ttaggtgcct 60

ctttcttttc ttcaacgatt tctctccccc tcttgcttta gctgatcgat ttcgaaaaat 120

tgagcttgcc aagtcaagca accagatttt gttggttgta tttagtatag gatccaaata 180

caatggatga aaaccatagg aatccatttg caaatgcaag tacaagtgct agagcaagcg 240

gcagtacaag tgcgagctca aactcgagtt ttagtagcag tgtggcggat acagatgatg 300

atcagaccat tgcacgtata ttagctgaag atgagagctt gagaagagaa ggaagcttgg 360

ggaagagatt atctcattgg atccatccac acactcctcg ggttaacagg gagattaacc 420

ccccccggg 428

<210> 2819
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-B9

<400> 2819

cgtgggcgcc ccnactgcnc catcnaccga naacggtttt acacccacac ctgacatgct 60

taaacttgca tctgatatga tgggtaagan gtcaccagaa gagcgtgaga ggangtttaa 120

catggcatcn tcnttgaaag caaacgctcc agcttcanca tcatacggca atgcatcaag 180

catctgaacc acgggaaagt ttaggagcga gtgggagttc ttcgggaaat tcctttgtgg 240

ctccaagaag cggtttcgaa ccaagcatcc cttctgctcc gcctgctgac ttacaggaac 300

agatgagaan ccaaatgaaa gatccancga cgcnacagat gttcacgtct atgataaaga 360

acatgaaccc tgacatgatg gctancatga gcgaacaatt tgggaatgaa acnttccaag 420

gaaaa 425

<210> 2820
<211> 422

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-C11

<400> 2820

ggagaaacac tattagatna tcacttctca gatttcgata ttcccaatan ataatagata 60

ctctcagttc ttctcttctc caagaacaaa aaaaaaaggt gaantcanaa tcgntagaaa 120

atcttcacng tccattaatc gaatcatcga nntcgttcgt cgattatcgt ctcgagactg 180

tgttaacaga tcgagagtta ccgtattttc gccggattta tctancgatg atgattgaga 240

tgacagtttc nctttcatct ggcggctccg gcgatctttg tttangtcat caacaanggc 300

atgtcanttc ttagncgtat cttcgctgga cacgtaggaa gcttcgaact cgccgncgct 360

tcacttggaa acagtggttc aacaatgtgn acctanggan ttctgcttgg aatggaaagt 420

nc 422

<210> 2821
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-C12

<400> 2821

ttacgnctgc cggtagcgag tccaaaattc ccgggntgat gagaagcttc nttccgtgtt 60

ccgtgaagga gtgaagtacg gtgctggaat cggtccagga gtctacgaca tncactctcc 120

aagaatanca tcntctgang aaatcgcaga tagggtcaac angatgcttg ctgtcntaga 180

gcacaacatc ctttgggtta accctgantg tggtctcaag acccgtaagt acaccnangt 240

caagcctgca ctcaacacca tggttgatgc ggctaagctc atccgctccc anctcgccag 300

tgccaantga agaaaagctt gatttganca aagaaacgtt ttttttctc taaaatggtt 360

gtgttttatt tggtttaata actttctnaa aaataatttt agtctaaggt agatttgatg 420

catatggttt ctttcntgtt gatnagagag aaaggctata tcatcctttg gatttgatgc 480

aatgtttgt 489

<210> 2822
<211> 493
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-C3

<400> 2822

tgttagttgc cnggccggtc caaaataacg ggtcgacnca cgcgtccgct caaattgtta 60

aagcaactgg agttgttaca aagactgctt gggctggagc tgcttataat cttttgctat 120

acatgctggc tagtcatgtg cttggtgcag cctggtatat attatcggtt gatagatata 180

catcgtgctg gaaatcaaga tgcaatggtg aagctggcca agttaattgt cagctatatt 240

acttagactg tgattcaatg tatgacaata atcagatgac ttgggcaaat gtcacaaaag 300

tgtttaaact ctgtgatgca cggaatggcg agttcaagta tgggatcttt gggaatgcaa 360

tcacgaaaaa cgttgtgtct tcacaagttc ttcgagagat atttcctact gtttgtggtg 420

gggaatgcaa caacttaatt cctaatggac aaaaatttgt cccacgaaca atgttcaaaa 480

tgggggggggg gcc 493

<210> 2823
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-C6

<400> 2823

gntctcccat aaccgaaacc gagagaaaat atagaaaaag atgattgaga cggttaaaca 60

cctgatcggc tccggtggtc ccagcggatt cgggtcaaga tccaccgccg atcatgtcac 120

ttgtaattct gatctccgtt ctctaactgc catcatcact ggcgcgacgt cggggatagg 180

agctgagacg gcgcgtgttc ttgctaagcg tggcgcaaga cttgtgcttc cggctagaag 240

cgtcaaaacc gccgaggaaa caaaggctcg tatactgtcg gagtttcctg atgcggagat 300

catcgttatg catcttgatc tcagctcact tacctctgtt cgtcgattcg tggacgattt 360

cgaatctctc aaatctccac tcaacatcct cataaacaat gctgggaaat atgcgcatta 420

aaaggnccc 429

<210> 2824
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-C7

<400> 2824

ggtattgaag ctcttttccc gattcaggct tccacgtttg atatggttct cgatggtgct 60

gatttagttg gacgggctcg tactggtcag ggtaaaacat tggcttttgt gttgcctata 120

ttggaatctt tggttaatgg acctgccaaa agcaaaagga agatgggata tggcaggtca 180

ccaagtgttt tggtcctttt accgaccaga gaattggcca agcaggtggc tgctgacttt 240

gatgcatatg gaggatcact tgggttaagt tcatgttgtc tctatggagg tgatagctat 300

ccagttcagg agggtaaatt aaagagaggt gttgacattg tanttggaac ccctggtcgt 360

attaaggatc atattgaaag acaaaacctt gatttcagct atttacaatt ccccggtttt 420

ggtt 424

<210> 2825
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-C8

<400> 2825

gcccacgcgt ccgcggacgc gtgggttcat gtgcaaggaa tcccgggtgg ggatccgtct 60

ctttttgatg gattgtcgtc ggttttctcc cgggagctgt ggaagtgtag tggttatgtg 120

cctaagaagt ttaaccttaa gtatagagag tttccttgct gggatgagca agagaaggat 180

gaagacggtg caggggtttt gttttcgatg tcgaaggaga atgtgattgc tgctcctgtt 240

agtactttgg ttggaatgag gaggagtctt gatggtaaag gaggaaccaa tgacgtgaag 300

cttggttgtg actctggtga aacggataga aaacattctc agggtgctat taagaaggat 360

aagangttgc ttcgtcctaa gatgacgaat aaacgaaaga aaaagaattg ttcggtgcct 420

tttcccnaaa aa 432

<210> 2826
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-D1

<400> 2826

tgttatttgc cnggccggtc canaattaac gggtcgacgc acgcgtccgc ccacgcgtcc 60

gcatttttct ctcttccata aaacccaaaa gaaactagga agaggagtaa ataatatttg 120

ttttaaagaa atgattctcc acaaaatggc gttcttggcc gttattctct tcttcttgat 180

aagcagcagc agcgtttgcg ttcatagccg tgaaacgttt gcttgcgata caaaggacgc 240

agcaacagct acactgagat tctgccagct ttcagttcct ataccggaga gagtcagaga 300

tttgatcgga cggttgacat tggccgagaa agtgagcttg ttagggaaca ctgcggcggc 360

gataccacgt ctaggaatca aagggtacga gtgggtggtc ngangcttac acggcgtttc 420

aaaatgtggg acccggtacn aagttccggt ggggtttacc ctgcaaccaa caantttttc 480

ccccccccc 489

<210> 2827
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-D10

<400> 2827

gcaagacgcg tgggtcggtg ttgataaatt caacatctgg taacgcagag agagatgcac 60

caccgaatct aacacttaga ggattcggtt tcgtggaaag gattaaggct cttcttgaaa 120

aagtgtgtcc taagactgtt tcttgcgcag atatcattgc tttgactgct agagacgcag 180

ttgtcgccac cggangtcct tcatggagtg ttccaacggg tanaagagac ggtangatct 240

caaataagac ggaggctact aataacattc cacctccaac gagtaatttc acgactttac 300

aacgactttt caaaaaccaa ggccttaatc tcaaaggacc ttgttctgct ctctggggct 360

caacacgaat tggcggtctc acantggtcc ttccaatgaa ataacgcgnt tctaaaa 417

<210> 2828
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-B11

<400> 2828

gctttttggc actcatagga ataacagcga accaaggatt ttacttgttg ggactggaca 60

acacttcacc aacatttgct tcctccatgc aaaactctgt tcccgccatt acctttctca 120

tggctgctct tctcaggatt gagaaagtaa gaataaacag aagagacggt atctccaaaa 180

tcttaggaac agctctttgt gtcgccggag cttccgtcat caccctctat aaaggtccaa 240

ccatctacac tccggctagc cacctccacg ctcatctact caccacaaac tcccgccgtc 300

ttagcgccgc taaggaaacg ccgcgcctaa aaactggacc cttggttgca tctacctaat 360

cggtcactgt ctctcgtggt caggctggct tgttttcaaa gctccggttc ttaagtctat 420

ccagcgangc tctc 434

<210> 2829
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-G9

<400> 2829

ganagaacat aaggaaaagc tacaaaggcg tgactgtgct taaagatgtg acatgggaag 60

tgaagagagg tgagaaagta gggttagttg gtgtgaacgg agctgggaag acgactcagc 120

tcaggattat cactggtcaa gaagagcctg attctggtaa cgtaatcaag gccaaaccca 180

atatgaaagt agctttcttg agccaggaat ttgaggtttc gatgagtaag actgtgaggg 240

aagagttcat gactgctttc aaggaagaga tggagattac tgagaagctt gagaaagttc 300

agaaggctat tgagggatct gttgatgatt tggatcttat gggaaggtta ttagatgaat 360

ttgatttgtt gcagagacga gctcaggctg tgaatttaga ttccgttgat gctaagatta 420

gtaagttgat 430

<210> 2830
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-H1

<400> 2830

gaaaggaaag agtcaaagtt gaattttctc agctctcact ctcttttttct ctctctttac 60

ttctactgta tcaagaagct ccgttttgct tagccatagt gcgtctaggg tttggttggt 120

gggaagaagg ttccgatcat ggcgtcggtg tcgtcgtcgg atcaaggacc taagacnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

atgttgttgt atagaggttt taagaaggcg aagaaggaga gaggttgtac agctaaggag 300

cgtattagta aaatgcctcc gtgcactgct gggaaaagga gttccatata ccggggagtc 360

accaagacat agatggacag gtcgttatga agctcanctt tgggataaga gtacctggaa 420

ccaaaaccag aacaagaagg gaaaacaagt tta 453

<210> 2831
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-H10

<400> 2831

ggaaagagaa gaacttgaaa ctcaccaaaa acattgatca ttatacacaa tcgtgatgga 60

gagttcttcg aattccgacc aaaatgaggg aactccgacg agctctgttt cttcgccgta 120

ccggagaaca tactcagata tccccggatt atctcaccgg ttcgacgttc agagctttta 180

taaccggccg tcaaacacta acgctgttgt cttgagtggc catgaagaag atgtctccga 240

agacgccgag gaaccaaaag atgatgtcgt caacgacgtc cacggagatg gagacgaaga 300

agacagcgac attgattctg cagaagatgc agagctagag atgatgaggg aaagatttgc 360

gaagctgttg cttggtgaag acatgtcagg aagtgggaaa agganttgta ctgctgttac 420

tgtgtcaaac tccat 435

<210> 2832
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-H4

<400> 2832

ggaaaaatca gccgagcaga ttgatgccga tactgctgta gttggtgacg acggtgaagt 60

agattttaaa ggtgaggcta aatttgcaca acatatgaag aagggagaag ctgtgagtga 120

atttgccatg tcaaagacca tggcagagca acggcagtat cttcccatat tttctgttag 180

agatgaacta ttgcaggtaa taagagaaaa ccaggtgata gtggtggttg gcgaaactgg 240

ttcgggaaag accactcaac ttacacagta tcttcatgag gatggttaca ctataaatgg 300

tatagttggt tgcacccaac caaggcgtgt acagccatga gtgttgcaaa gagagttagt 360

gaagagatgg aaacagagtt gggcgataaa attggttatg caattccgtt ttgaagatgt 420

aactggtcca aacactgtta tcaagtacat gaccgat 457

<210> 2833
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-A10

<400> 2833

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tttgaatttg ttcttgcaat cggattcgaa atccgaaagt cttagtctcg aatttgagct 120

caacagtttc ttatggctcc gaagaagtct gaaggaatcg ctttgctttc cgtttacagt 180

gatgaagatg acgaagagat ggaagacgcc gaggaagagg aagaagagga tgagaagcag 240

agaaatcagg aagagagtga aaaaataatt gaagaagatc aggtagaaga agcgaattat 300

atggatgaag aagagaaagg aagaggagga gaagattcta gaacgccgag gctattagat 360

ggtgttggag cttcntctag tgctcatggg actcctcgtt cacttgataa cgatgaatca 420

tcgagacctg attggngtt 439

<210> 2834
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-A12

<400> 2834

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ccgtgagttt tttagttttc cgttacattc tctgtctcaa ttctgaaact tttcacatgg 120

gttgtgctca aatttccttt ttaatggttg tcgagattta tctataaagt caatgatctg 180

ggtttgatca aagtctcaat ctttctctta aatttcgaat atttgatgat cccacgagtt 240

agtctctcta aatctgatct ggctatgctt aatccgccac attgttgctc tcaagctctg 300

gatttgattg tatcatgaaa agttatccaa ttgggttcna gtaagggcat tcaatngcgt 360

aactccaaga aagccggtgg attttcgatt taaaaatcag ggagggaact atcagaaaat 420

cangaaaggc 430

<210> 2835
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-A2

<400> 2835

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tctccaccac cacccaagaa gcactacgtg tacaaatctc cccctcctcc agtcaagcac 120

tactctcccc caccggttta ccattcccca ccaccaccaa agaaacatta cgtatacaag 180

tcccctcctc ctccggttaa gcactactct cccccaccgg tttaccactc accaccacca 240

ccaaagaaac attacgtata caagtnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnatacc actattagat atctctatca 360

cggagaacac gatgtacaca agaagacaaa gacaagacga aaccaagtac tggtgattgg 420

tataagagaa acaaaagatg aaagaagaag aatccaagca gagaaaagct ttctcatcaa 480

ttttccaaaa aagggggnt 499

<210> 2836
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-A3

<400> 2836

ctgttacttt gccnggcccg gtccagaatt aacgggtcga gccacgcgtc cggattactt 60

tctcaagact ttcaatagta ctcagttccc catttgataa gctccttaac atgagtgagc 120

tcaccancag cttcgtattt agcactatat tcaatgggga actgattact ttctcangac 180

tttcaatagt actgctgatt ccattgatga tcttgtgtca caggttggat cagggaatac 240

tgatgatgga aatacagatc ctaatgacca ttactgttgg atgcgacctg aggatatgga 300

ctataaaagg cccgtgacta cttgtaatgg tggatgttcg gatctcgctg cagagatggc 360

agctgctctg gcttcagcat ctattgtatt caaggataac aaggaatatt ctaaaaagct 420

tgtccatggt gctaacgtgg tgtatcagtt tggaaggacg aaggagangg gagatataa 479

<210> 2837
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-A4

<400> 2837

ggcccggtcc acaaattaac gggtcgaccc acgcgtccga gcgactcact cagatctata 60

cacnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnga 120

tctgtgagtg ccnttatcgt tgagagatta tgttgacaaa gttcgaaacc aaaagtaaca 180

gagttaaggg actgagtttt caccctaaac gaccatggat tcncgcgagt ttgcacagtg 240

gcgtgatcca gctcngggat tatcgtatgg gtactttgat cgatagattc gacgaacacg 300

aaggacctgt ncgtggtgtt catttccaca attctcagcc tctcttcgtc tccggagggg 360

atgattacaa gattaaagtg tggnactaca attnccacaa ggtgccnttc actcatcaan 420

ggcatcntga tatatccgca cggttcagtt caatcatggn 460

<210> 2838
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-A5

<400> 2838

gaactctctc cgtagtctga gactcgccgg aaaagcttgt attggcttct cttcgatttc 60

tggcggaagc aaggatatca cgtgagctat gaagttcctc atgcaatcca tttctgggag 120

gaatcgatct ctggttcgag ctctagttag tcggcgttac ttcgcttcat cgccggagga 180

aatcgcaaag atgaaattac gccancgatc tgtcngaata caacaccgct gtcaactccg 240

tcacagctca ncgcaggcac tatttgctga nggatgttta tgatgatatg aagcttgatg 300

gtgtgcagcc tacagctgat atcttccatt caatttgtcc tggggaacga tgaaaggtgc 360

tccggttaaa ncgatncggt ccttttttccn gggaaagaaa atntaaagcc atgggggaat 420

tgccccaaaa tgttgaaaac cccnttttttg gg 452

<210> 2839
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-A6

<400> 2839

gnacttctca agatctctct ctgtctttgt catcaccact ctatcgtcta ctagagggaa 60

gagatcatca ttctacagtt tcaagaagat accatttcca agactatctg attatctgca 120

cttgtagtga aactgtggaa gaagcaaaaa tggggacttt gagtaaggtg ctatgtctca 180

tgctgctttg ctgtatcgtg gctgctgctg agggtacttt gaagtacaag gacccaaagc 240

agcctttggg tgcaagaatc agagatttga tgaaccgtat gactctacaa gagaagattg 300

gtcagatggt tcagatcgaa cgcagcgtcg ctacacctga agtcatgaag aaatacttca 360

ttgggagtgt tttgagtggt ggaggaagtg tgccctcgga aaaactactc ctgaaacttt 420

tgggggggg g 431

<210> 2840
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-A7

<400> 2840

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tcacacacac ttctcctacg tccaaaactc tccaccaacc atctgttgcc acgtggtgga 120

aaaccacaga aaaatactac aaactcgcaa cacccagcaa aaactcatca cctctgtctc 180

taactctcgg gaaacaaatc atcgacgagt cttgctctct aggaaaatct ttaaccgata 240

aaaagattca aaccctagct tcgaaaggag accaacgcaa cgccatcaac gtcgttttga 300

cttcagctga cgttacggtt acaggatttg gtatgagtcg ttgcgggact cacggacacg 360

ctcgtggttt angtaaacgt ggctccaagt ttgcttacat ttgggttggg aaactctgag 420

acacaaaatt gggtt 435

<210> 2841
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-A8

<400> 2841

gagcaaagcg tttctatcat ttccttaata ttgaaatggt gacagacttc aaatccctac 60

taccagttat cgacatcagt cctttactgg ccaaatgtga tgatttcgac atggctgagg 120

atgcgggggt tgtggaagta gtcggaaaac tggacagggc atgtcgggac gtcggattct 180

tctacgtgat tggtcatgga atatcngatg atcttataaa taaggtgaaa gagatgacgc 240

atcagttctt cgagcttcct tacgaggaga aacttaagat caagattact ccaactgctg 300

gatacagagg ataccanata attggagtaa attttacgag tgggaaacaa gatatgcacg 360

aagccattga ctgttacagg naagttcaag caaagggaaa catggggana tccggaaang 420

ggccctttt 430

<210> 2842
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-B10

<400> 2842

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ctgagatgtc tccggaagct tacgttctgt tctttaacag ttttaacctc gtaaccttcg 120

aagcctttgc ttcagtctca cttatcatag ccacagttgc tttcttgctc tcaccaggtg 180

ggctcgcatg ggcctggacc gggtcatcca agagtcgggt ttcgattcca ggaccatctg 240

gttctctttc cgtcttctcc ggctccaatc cccaccgtng ttctcgccgc tcttgctaaa 300

cgcttcaagg cctctccgtt gatggcgttc tcagttgggt tttcgcgttc gttatctcta 360

gtgaaccgga gacggctaaa gagattttga gcagctctgc tttgctgaac gggccggtta 420

aggaatcaac ntaa 434

<210> 2843
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-023-Q1-E1-G4

<400> 2843

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atggacaact gctgctggtt tgttaattgc cgggtaccaa tcgcctgtta gaggatgtct 120

attggcttca ccacacgaac attgatgcag agtacgtagt aattcttgat gctgacatga 180

tccttcgtgg acccatcaca ccttgggagt ttaaggcagc tcgaggccga ccagtttcaa 240

ctccttacga ctatcttatt ggatgtgata atgaccttgc aagacttcac acgcgtaatc 300

ccgaggcttg tgataaagtt ggtggagtca ttataatgca catagaggat ctccggaaat 360

ttgcaatgta ctgggttgcn taaaacccaa gangtcgagc agacnaagaa cactacgggg 420

aaggagttaa ctggggatat atatgaatcc ngt 453

<210> 2844
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-C9

<400> 2844

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aacaagaggc agaaggaaaa aaaatgtgga ggtcattcgc aagaagcttc aaactcatta 120

atgtaccaaa tggtttgata tccaagccaa ttcgctctac tctcctctat tcaacttctt 180

caagaaagtt agaaggaaaa gtagcggtca taaccggcgg ggcaagcgga atagggaagg 240

ccacagcgga ggaatttgtg aagccaaggt gcgcaagtga ttatcgtaga tatagatgaa 300

gaaggctggt catatggtcg cgaccgaact tggctcagcc gcacatttcn taagatgttg 360

atgtcactga ngaagaacaa atccctaagg cgttgagaac gccgtgactc ctcatnggna 420

actcgacgta atgcnaatat gc 442

<210> 2845
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-D1

<400> 2845

ntggttacgc ctggccgtac cgggtccgga aattcccggg gtcgacccac gcgtccgggt 60

taatcgaaga acctcaccgt aagtccactg agggattcaa gttcttgctt tggtttannn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngtcaaacc 180

aacgacggag ctggagctgg agctgttacg acggtagaat ctgttcctcc tcagcctcaa 240

tctcagcctc agcctcagcc gcagcagcag agcaacgaga tggttctgca tacgggaagc 300

ttgagtttta gtagtcatat gtcgagagaa gacgaagaga tgactcgttc tgctctttcg 360

gcgtttagag ctaaagaaga tgagattgag aagaggagga tggaagttcg tgaacggatn 420

caagctcaat tgggtcgggt cgaacaagaa ancaaacgtc tctctactaa tcgtgaagga 480

gcttgagtcc aaggna 496

<210> 2846
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-D2

<400> 2846

gcccacgcgt ccgcccacgc gtccggttga ttttggaatc tccattacga tggaaggtgc 60

ggctgatcaa actacgaaag cgttatctga attagccatg gattcttcta ccaccttgaa 120

tgctgctgag tctagcgctg gtgatggagc tggacctcgg agtaaaaatg ctttgaagaa 180

ggaacagaaa atgaagcana aagaggaaga gaagagacga aaggacgaag agaaagctga 240

aaaggctaaa caagcaccta aagcaagctc ccaagaaggc agtggcagca agatgatgaa 300

gagatggatg caacgcaata ctatgagaac agattgaaat atcttgcggc tgagaaggct 360

aaaggggaaa atccatatcc tcacaagttc gctgtgtcaa tgtcgattcc taaaatacat 420

ttgagaacnt atggtagttt gaacaatggg gatnaagt 458

<210> 2847
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-D5

<400> 2847

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ctggagggag aggtgtaccg atcagagatg tcttgggaaa cagcaaaatg attcttggat 120

tgctcgaagg aattcccacg atgcacaagg gtgaaattgc aatgttcaag atgaaacctg 180

aaatgcacta tgcagagatt gattgtccag tctcagctcc agaaaatttt ccaaaagatg 240

atgagcttca ttttgagatt gagttgttgg atttttctaa agccaagatt gcaagtgatg 300

atctgggggt catcaagaag attctaaatg aangtgangg ctgggaatct cccaaganaa 360

acctatgaaa gttgaaaanc agaatatccn gctaaatccg gtgattgnca cgtgattctt 420

ctctcacaca ggaaagaacc cttaatttcc ttcacatttg ggaaaatcct g 471

<210> 2848
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-E1

<400> 2848

gcaaaggtct tacctcattg ctacatgttg atgtctccaa caatcagttc acaggtccaa 60

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acctctgcat tccacattcc ttctctgcta gcaacaatag ccgcagcgcg ttaaagtact 180

gtaaagatca atctaaaagc aggaagagtg gccttagcac ctggcaaatc gtgctaatag 240

cggtcttatc gtctttatta gtcttggttg tggtccttgc tcttgttttc atttgcctac 300

gtcgtcgcaa aggaagacca gagaaagatg cttatgtctt cactcaggag gaaagnccat 360

ctttgttgtt gaacaaagtt cttgcagcaa ctgacaatct aaatgaaaag tacancattt 420

ggnagaagga gctcaaggga attgtgttca anagncttcc tttaggctcc cgga 474

<210> 2849
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-E10

<400> 2849

gcttcttctt cgtcttcttc tctgaatagt cacaatgcga gnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncatc 120

aactcaagat ctcaacgccg acagaaccgc tcttctctct ctccgctccg ccgtcggagg 180

ccgtacattt cgctggaaca tcaaacaaac ctcgccgtgt aactgggccg gtgtcaaatg 240

cgagagtaac agagtcaccg ctctccgctt anccggcgtt gctctctccg gtgacattcc 300

agagggtatt ttcggtaact taactcaagc tccgtacact tagccttcgt ctnaatgtct 360

ctcnggntaa atcccnaaga tttcaagaac tcttccaaat ctccgaaaac tttacttaaa 420

anggaaaaa 429

<210> 2850
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-E11

<400> 2850

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cactgtggga ttagtcatac aggaagtttc aaggatcttg gaatgactgt tttggttagt 120

caagttaatc gtctgagaaa gatgaaacga cctgtggttg gtgtcggatg tgcttccacc 180

ggagatactt ctgctgctct atctgcttac tgcgcctccg ctggaatccc atcgattgtg 240

tttttaccgg cgaacaagat ctctatggct canctggttc agccgatanc taatggtgcc 300

ttttgttttg agtattgaca ctgaattttg atgggtgtat gaaaccngat taaaagaaaa 360

taacggccgg gaattgccca attaatttgg ggnaaatc 398

<210> 2851
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-E2

<400> 2851

agatcatcat ccgaccaaat aagatatatt tggggttaag ctcgagtctc tccggttttg 60

agtttacttg agtttgttag tatttatggc tgaggtggga aaagttctgg ctagtgatat 120

ggagttagac cattcaaatg agactaaagc agtggatgat gttgttgcca ctactgataa 180

agcggaggtc ataccagtgg ctgtaactag aactgaaacc gttgttgaaa gtttggaatc 240

tactgactgt aaggagcttg aaaaacttgt tccacatacg gtagcttcgc agtcggaagt 300

agatgttgct tccccggtat ccgagaaagc accgaaggnt tctgaaagta ccggtgcaat 360

ancnttgcag tctggttcng aaaggaataa tccctttaat cntgagaaag gtatggaaga 420

cggtacaact ggcgggaata tngacagaaa 450

<210> 2852
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-E3

<400> 2852

gcggacgcgt gggtgcgtgc ggggtttaaa aagcttgttg tctcactgtt tagaaaggaa 60

atgatggatg tttccagcag atttgatgag ctgctcgaaa ggatccttgt ggaacatgaa 120

gataaactgg acatgcatca tcaaggtaca gacttagtgg acgcgttgtt ggcagcttgt 180

cgggacaaaa atgcagagta taagatctct aggaaccata tcaagtcgtt tttcgcggat 240

ctcttatttg caagcactga cacctttgtg caaacaacac agtggacagt ggcggagatc 300

attaataacc ctaatgttct tgagagattg agaggagaaa tcgattccgt ggtcngggaa 360

agcaangttg attcaagaaa ctgatttgcc aaanctccct tatttgcaag cggtggtcaa 420

ggaaaggcta agactgcatc cgccggggcc tccccttttgc aaggttcn 468

<210> 2853
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-022-Q1-E1-E4

<400> 2853

gctaaaaaat caccgtgtct ctcgtccctg gtttggtcct tcgagaagtg tgaacaaaaa 60

tgggttttct ctttggtttg ttcataggaa tcgcggtttc tttcggtttg gtcgtcgcat 120

ttgctcgcta ctctagtgtc agatccactc gtcgagctga tttggcaaag accattgctg 180

catttgcaag aatgacagtt caagattcga gaaaacttct cccgggagat ttttatcctt 240

cttgggttgt gttttctcag agacaaaagt taaattggct taatcttgaa cttgaaaaga 300

tctggcctta tgtaaatgag cttctgagct gattaaaagc agtgtggaac cagtacttga 360

acagtataca ccagctatgg ttagcatctc tcaaagttct ctaaattcac acttggggac 420

cgggggccct caagttcaca aggagttcca acctaaaaag tgaaag 466

<210> 2854
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-E6

<400> 2854

gcccacgcgt ccganacagt gacatttttc tacaanaagc tgttgctana tataaggggt 60

ttctctatct gataaagatg aacagagaaa ggtctttaaa aaggttttgt gttccgactt 120

acgatgttga ccttatctgg cacacacatc agctgcaccc agtttcttac tgtgatgata 180

tggtgaagct cattggtaaa gtgttggagc atgatgacac agattctgac cgaggcaaag 240

gtaagaagct cgataccggt ttttctaaga ctactgcaca atgggaanag acattcggta 300

caaggtactg gaaagccggt gcaatgcata gaggcaagac actgttcctg gtcacaaatt 360

ctccttatgc ttctgatgtt ttggtcaaag acccaactgc aaaagacgat ttccagaant 420

taatccaaat tcccaagngg tggaanttgt tgaaggtccc cctgg 465

<210> 2855
<211> 519
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-E7

<400> 2855

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ctttcttggt ttaagaagat tcgttgttga atcagagaga aagaaagcat ccatttttct 120

atcattgctt gcttgctatg gaattgggta aatctcgatt ctacttatgt tgcaattgct 180

tttctcctgt tagattttcc gattattctt tagctggaag tgattatcca gacgccatct 240

ccatcacttt caattgtatt cctatacctt cttctgaaga ttcttcgtat ttctcgattc 300

gatgtttata aacttcaaaa ttctcttcca aatcttgaaa acgaaatttc tcccaaaaaa 360

atctcctggt ttcctcaaca aggnnaacaa naanaaacaa tggttggtgg tggcaatcaa 420

ccntccgcct tggctccntt tgggggtccc tcccttcctt caannctaat ggggtgaaac 480

taaagggnct tccttcaaac aaagtggtcc aaanaattt 519

<210> 2856
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-E8

<400> 2856

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ccgagtcttc ccagcttcca aaccaccaac cgccactaat ggagctccac cagttggttc 120

cataccacct cctccagctc cggcgactgt aaccagcaac ggaacaacaa acggaatggc 180

taatcagaaa cctcaagtct acattccagc taaccgtccg gtttaccgtc cacagcctta 240

cagtcgccgt catcaccacc aatctcgacc aagctgccga cgaatttgct gttgttgctg 300

tttctggtcg attctgataa ttctgatctt agctctcatg actgcaatcg ccgccaccgc 360

gatgtacgtg atctaccacc ctcgtccgcc gtcgttctcc gtcccgtcaa taagaatcag 420

ccgcgtgaac ctaacaacct cctccgaatc ctccggttnt caa 463

<210> 2857
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-C6

<400> 2857

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tggcggaagt atcagcaaaa tcggtgacgg ttgaggaaat ggcggaagag gacgacgctg 120

cgattgagga gcggtggagt ctttacgaag cttacaacga gttacacgct ttggcgcagg 180

aattggagac gccgttcgaa gcaccggcgg ttcttgtggt gggacagcag accgacggta 240

aaagtgcgct tgtggaagct cttatggggt ttcaatttaa ccatgtcggc ggcggaacca 300

agactcgtcg gccgattact ctccatatga agtacgatcc tcagtgtcaa ttcccgcttt 360

gtcatctcgg atctgatgat gatccttccg tttctcttcc caaatctctc tcacaaattc 420

aagcataata ttgaggctga naacatgaag gctggancaa g 461

<210> 2858
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-A7

<400> 2858

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tgatctctct tcctccggaa aaagatgtcg gccggtaacg gaaatgctac taacggtgac 120

ggagggttta gtttccctaa aggaccggtg atgccgaaga taacgaccgg agcagcaaag 180

agaggtagcg gagtctgcca cgacgatagt ggtccgacgg tgaatgccac aaccatcgat 240

gagcttcatt cgttacagaa gaaacgttct gctcctacca caccgatcaa ccaaaactcc 300

gccgctgctt ttgccgccgt ctccgaggag gagcgtcaga agattcagct tcaatctatc 360

agtgcatcgt tagcatcgtt aacganagag tcangaccaa aggtggtgag aggagatncg 420

gcggagaaaa agaacgatgg gtcaactact ccggcgtacg ctcaa 465

<210> 2859
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-B1

<400> 2859

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agctgatacc tccggcgagg cgtgatggat ttttgtatcc accgggtcgg aaaatcgacc 120

gggatacgat acttatcgag gcgtatattg acccggtttg tccggattgt agagacgctt 180

gggagccgct aaagctagcg attgatcact atggatctcg cgttgctctt gttcttcacc 240

tcattccttt acccttccat gacaatgcat ttgtagcatc tcgggcttta cacatcgttg 300

ataccttaaa cgccaatgcc acgttcaatt tgctggaagg gatcttcaaa gcatcagaca 360

ttgttctaca actcgcaaac acaactcaag tcaagacctg cagttgtggg aagaattaat 420

caagccttgg aacantacgt taggaaactc atatcaantc 460

<210> 2860
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-B11

<400> 2860

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aggtcctaca actgtgaatg ttcgtatcac tggtctcact ccagggcctc atggatttca 120

tctccatgag tttggtgata caactaatgg atgtatctca acaggaccac atttcaaccc 180

taacaacatg acacacggag ctccagaaga tgagtgccgt catgcgggtg acctgngaaa 240

cataaatgcc aatgccgatg gcgtggcaga aacaacaata agtgggacaa tcagattcct 300

ctgactgggt cctaattctg ttgttgggaa aacctttgtg gttcacgaac ttaaaggatg 360

acctccngga aaggggtggc catgaagctt aatcctgacc actgggaaaa cgcaggcggg 420

aanaattggc atgttgtgtg aattggc 447

<210> 2861
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-B2

<400> 2861

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ccaaccacgg aagaaattgc tgaggttgtt caatccagtg ttttgcctga catgttccga 120

gcaacgtacg agtcaatcac caagggtaac cccatgtgga ataagctgtc tgttcctgag 180

aataccctct actcatggga tcccaactca acttacattc acgagcctcc atacttcaag 240

gacatgacca tggatcctcc tggtccacac aatgtgaagg atgcttactg tttactcaat 300

tttggggaca gtatcaccac tgatcacatc tcaccanctg gggaacatcc aaaaaggaaa 360

tcctgctgca aatttctcaa gggagcgtgc gttgaccgtt angncttcaa ctcatatgga 420

agtcnccgtg ggaatgatga aataatggca anaggtactt . 460

<210> 2862
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-B3

<400> 2862

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acgctagaga caacgaagcc tacgaggagg agctcttgga ctatgaagaa gaagacgaga 120

aggtcccaga ttctggaaac aaagttaacg gtgaagccgt gaaaaaaggg tacgtgggaa 180

tacacagttc tggattcaga gacttccttt taaaaccgga gcttctcaga gctattgttg 240

actctggatt tgaacatcca tctgaagtgc aacatgaatg tatccctcaa gctatcttgg 300

gcatggatgt catctgccaa gcaaagtctg gtatggggaa gactgctgtg tttgtcctgt 360

ctactctaca acagattgaa ccatctcctg gccaagtttc ctgcacttgt ccttgtgcca 420

tacaaagaga gctagcttac caagattttg caatgaantt tgtgg 465

<210> 2863
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-B4

<400> 2863

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acgctctatc tgagcttgaa tccgctttct atgctcttgc caccgacgat gatttccaga 180

gagagttggc tggaatcttg aaggactatg tgggtagaga aagtcctctg tattttgcag 240

agaggcttac ggagcattac aggcgcgaag aatggcgaag ggcctcttat atacttgaag 300

agagaagact tgaatcacac aggagctcac aagattaaca acgctgtggc tcangctcnt 360

cttgctaagc ggtttgggga aaaagaggat tattgctgag acaagaaccg ggtcaacatg 420

gtgttggcta canctancng gttttgcccg ttttggggtt ggattggtat aa 472

<210> 2864
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-B7

<400> 2864

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gccgctctaa gactttccat aactcccact ctcgctatcg cctctcctcc ccatctccgt 120

tggttctcga agttttctcg tcaatttctc ggcggacgca tctcttcact ccgaccacgc 180

attccttctc cgtgcccgat tcgactctct ggtttcccgg ctctcaaaat gagagcttcg 240

tttagcagtg ggagtagtgg aagtagtgca agtagagaga ttctggtgca gcatttgctt 300

gttaagaata atgatgttga agctctttgc cgaactccaa aagaaattct tggatggaga 360

agagatgaat gatcttgcgg ntgagtaatc caatttgtcc ctccaaaaaa aggacggtgg 420

naatacntgg gatnggtaaa actggggtca aatgggnaca aga 463

<210> 2865
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-C1

<400> 2865

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gaggacatgt cttgcttact gttttcactc tttgtatgct ttgttcaggg gttagggcac 120

agctaagccc tgacatttat gctaaatcgt gccccaatct agttcaaatt gtccgtaaac 180

aagttgccat cgccctgaag gccgagatac ggatggctgc ttctctcatt cgtcttcatt 240

tccacgactg ctttgttaat gggtgtgatg cgtcgttatt gttggatgga gctgacagcg 300

agaaactcgc gatcccaaac attaactctg ctagaggatt tgaagtaatt gatacaatca 360

aagccgctgt ggaaaacgca tgtcctggtg ttgtttcctg tgctgatatc ctcactttgg 420

gcgctcgtga ctccgttgta ttgagtggan ggctgggtgg aaa 463

<210> 2866
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-C10

<400> 2866

cgccttgccg tngcccgtcc gnaattcaaa gggtcgaccg acgcgtccgc ccacgcatcc 60

ggtcgtcgtc gcgatcttcg ttttttaggc ctaagcttcg aatcgatcca agcttgacct 120

taattccagg cttatccaac gacgtcggga gactgattct ctccttcgtc ccttaccctc 180

acatctctcg tatcaaatca acctgtaaat catggtacgc tttcctctct tccaaaaccc 240

taatttcact ccgccatagc aganacaaca gcancaccaa caatctctcg catctccttt 300

gtatcttccc tcangatcct tcgatttcgc ctccttttct cntcgattcc gtgactcact 360

cttggggatc gcntcctcct atgccttgta ancccncacg atttacnggn actggaattt 420

ccgtagcngt anacanggga ncctanagtc aagtcccncg ggtgggtctg 470

<210> 2867
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-C11

<400> 2867

gaaatcttaa aactttgctg attgattgat tttcgattcc gggagaagaa aaatggtatc 60

tgggttgatt aatgagaacc ctatcattta cccaaagaaa gagaggcgtc ttcgtactga 120

tacaagcatt actgatgagc ttacaccaga accaattgat caacttgaga tttttgatca 180

tataagagat atcaaagatc cagagcatcc taatactctg gaagatctca gagtagttac 240

agaagactca gttgaagtgg atgatgagaa cagttatgtt agggttacgt tcactccaac 300

tgtcgaacat tgtagcatgg caaacgttat cggtccttgt gtccgtgtga aacttctacg 360

aagccctccc tctcatacaa gantgatata aggggtacaa ctggttcnca atgcacnaga 420

agatgcattg gataaacaa 439

<210> 2868
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-022-Q1-E1-C12

<400> 2868

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gctcaactca gaaagattat tcgttatttt atgagcaaca aaagctttaa gagtagtgat 120

ggagttctca accacgcaaa tagtttgctt gctaaagcac agtcaaagct ggaggaagag 180

tttaagcagt tgctagcttc ttacagtaaa gcggtggagc ctgatcgcct atttgatggc 240

cttcccaact cactgagacc atcctcagac ggggatggag gtggaaaacc ccacggagga 300

catcacaatg atgacgcgga aactgctgct tatacacttc caatcctcat tccgtcacgg 360

gtgttgccac ttttgcatga cttggcacaa caaatgggtc aaggctgggt caccaacaac 420

agtttgccta caaaatttat agggacac 448

<210> 2869
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-C3

<400> 2869

catactattt atgtaaaagg aagcaacggg tgagaagaat taaaaagccg caattttggg 60

atcataagag ttctcttctt catctgtgat tcattccgtt gttacccgcc aggcaccagc 120

caccgtactt tttctctctc cggcaaaatc cgagtctaaa aatgacgagt aaaagcaaaa 180

tcctgttcat cggaggaacg ggttatatcg ggaaatatat agtggaagcg agcgcaagat 240

ctggccaccc aaccttagtt ctcgttcgaa attcgacgct cacaagccct tcacgatcct 300

ccaccatcga gaatttcaaa gaacctcggc gttcagtttc tcctcggaga ccttgacgac 360

catacgagtc tcgtggaatt cgataaagca agcggatgtg gtcatctcta ctgttggggc 420

aactccctcc ntggggacat ca 442

<210> 2870
<211> 528
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-C4

<400> 2870

ctgttacgcc tggccgtacc gggtccgnaa attcccgggg tcgacccacg cgtccgggga 60

gagaccaccg ccgccgaaga aaaggggcg gcggaaggag gaggaaggtg aggctgagga 120

aattagttgg tctgcggcgg cgccttcgtt ggctgtggcg gaggaggaat ttgaggagga 180

gaattgggct tcggtggtgg ataatgaagc tggagagagg ttgagaaaaa gagaagcaga 240

ggaagaanaa nanangagga tgaagagaaa ggagaagaaa gttagctact ttagtgatga 300

gagtgatgat gaagattanc ttcttagatt cantttatgg tttgtgaata ctgaaagana 360

gagattgatc aaagttcagg aacaaattac aatcttcngg tttccgtcnt cgtatgtgat 420

catgtttgat gactccgggt tgttccgtcc tgagtgatat anttcctngg gnttgaanaa 480

tacattgntg gttcaacaan gnaattttta actcccttga ttttaana 528

<210> 2871
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-A4

<400> 2871

gctttttat ctctcgaaat tcctctctct ttctctctgc atcaaaacag caactttact 60

tctgcgtttt tgtttatctc tctgtattat ccgattaatt taaaggagtt ctttgaaggc 120

agctgcttct atgccatatt gccgagaaaa tgggcgagtc taaggggtgc gggaatgttg 180

gacgaatgat ttcgaagaat aagtctgcga attcttataa cctctctctt canttgtctc 240

ctgttgtttc tttctgggat tgtattgtcc gcaccatgag gtattcctat ataccanagt 300

gggtgtagtt cttgagttcc tctacaacat catcgagttt aagtgcaatt ttttaagtta 360

gaaatttata gtcaagcant aaagggatna cacggggtgc aagcaagttc agccagtcgt 420

taaggaaagc gaaagaaaaa acaatggtaa aagatgaant t 461

<210> 2872
<211> 514
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-E2

<400> 2872

gaactgtttc gcctgctcgt accggcccga aaattcccgg ntccacccac gcgtccggtg 60

atctcgtctc gaggctaacc atagacgaga agatctcgca gctggtgaat acagctccag 120

ggataccgcg tcttggagtt ccggcgtacg aatggtggtc agaagcttta cacggcgtag 180

cctacgccgg tccaggaatc cggtttaacg gaacggttaa agctgctacc agctttcctc 240

aagtcatctt gaccgctgct tcattcgact cctatgaatg gttccgcatt gctcaagtta 300

taggaaagga agcaagagga gtgtacaacg cagggcaagc gaatggaatg acattttggg 360

caccaaacat taacatattt agagattcac ggtggggaag angccaagaa actcccggcg 420

aaggattcga tgatgaccgg aacttacgcg gtggcttacg ttagaaggac tacaangtga 480

ctcctttgac ggtccggaaa acactctcca atca 514

<210> 2873
<211> 508
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-E3

<400> 2873

taccctgccn gtaccggccc gaaaatcccg gatccaccca cgcgtccgga tttttgatat 60

aaggtttgaa atcatggagg tcgttgatat tgatgcccga gctgctaagt tagggattga 120

ttggtctcag gttaattttg attccatcca acttcctcct ggagaagact ttgggatcga 180

gagtgatgat gaagctgttt accaggatga ccagtctgaa ttcgacactg gattcggtaa 240

cattatcgtg gtcgatcacc tccctgttgt tcccaaggag aagtttgaga aacttgaagg 300

tgttgtcaag aaaatttaca accagttagg tgtgattaag gaaaatggac tgtggatgcc 360

tgttgatccc gataccaaga tgacattggg ctactgtttt attgagttca acactcctca 420

nggaagcaca aaacgctaag gaaaagtctc atggctacaa attgggacaa atcctcacaa 480

tctttgctgt aaacatgttc cgatgaat 508

<210> 2874
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-E8

<400> 2874

gggaaaatga tagtgaagtt aagaaagtat atatgtgaaa attaaattca gttgagcgta 60

aatagaaaac ccttacaaaa aaccaaatcc ctttcttatt tttatttttg tgccattttc 120

tatatatatt aaaaaaaaaa cattcttata atctgaaatc ggaaaaattc acttcactct 180

cttcgttttg cgtttttttg tgtgtgtgtt ttaaatatca aagccatgtt ttgggtaagg 240

aattaaagag caaaaacctc gattccgatt tcaaatattc gaaggtgaaa tttcttcatt 300

ttctgcgaat ttggtagcta tcacgttctc aatctggtga attanggctt ttgttgagct 360

gtggaagcta atgatgggtg tacccaccgc tgangaaggt ggggtttctc tttgttgcta 420

tgtcttgaaa ccttagtttg ctttt 445

<210> 2875
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-F3

<400> 2875

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ctaacaccac tcttcctatg gaatggctgc ggattactct ccctgacttt atgaaagaag 120

cgaggaatac tcaagaagcg atatctggtg atgatatcgc tgttgtctcg ggtttgtttg 180

ttgagcagaa tgtgtctaaa gaagagagag agcctttgct tacttggaac cgtttggaaa 240

gtcttgttga taatgcacag agtttagtta atggagttga tgctattaag gaagctggca 300

ttgtttggga gagtcttgtg tctgctgttg aagctaaaga aactaattga tgttaatgaa 360

aatcagacga ngaaaggaaa agaagagctt tgtcctcagt ttccaagcaa aatgaatgct 420

actgaagctg atgggaataa tcctgaaatt gcaaatt 457

<210> 2876
<211> 527
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-G5

<400> 2876

canacgtccg gagctttttc gtttcccatc gggaagaaga aactcatata taccttccaa 60

aaaatccata cgtcaagtat ttgttctcta tcctctcttt gttgtcttat aaattcttca 120

agcaggtttc gagatttcct cgaatctgtt ttgttcttgt tcctcaaaaa tgctgggttt 180

ttgaacgaac gaggatgacg atgctcaaag tccgaagcag agatggattg ggagaagagt 240

gagttgtaga tggacctcat atcaaaagtc tcccanctca aaaccctaat cccaaggatt 300

angctttcag gtttccctat cccacaaacc naaanccttt nntccaacca aattagnaaa 360

cccttnctcc cttcgcctaa aggaaggccc ctttcnggaa ttttccctaa gcggttttta 420

aanccgnaca aatggggccc ggatttncct naaaacccttc ccgggaaatc ctccgggttc 480

tcctccaaat tccctaannc tttnnagggg ggttnccaaa tgggggc 527

<210> 2877
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-G7

<400> 2877

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aatgagaaac aatttcgtcc ctataattct ctccttcatc atcttcttga ctccatnaat 120

cgcagaacaa gaaccttcaa ttctttctcg cgtcgatcaa ctcctcaaca aaacaagctc 180

atacctcgat ttttcaacaa aattcaacca accaagaatc gaactaacaa catcaacgat 240

catcgccggc ttactctctt tcctagcttc atcaatctca agcgccggtg gaatcggcgg 300

tggaggttta tatgtttccg ataatganaa tcgtggncgg gtctcgattc tanagaacag 360

ctttaaagcn tctcangctt ttaaggggta actgggtgga tttaagagcc tanacgtggg 420

gatgnaantc ctaattcngt ttaggaaacc cctaaanatc tgggggggga agaaacccnt 480

aat 483

<210> 2878
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-G8

<400> 2878

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tctttatgtc gaataataat aattctccga ccaccgtgaa tcaagaaacg acgacgtctc 120

gtgaagtctc aatcacattg cctacngatc aatctcctca aacctcacca ggatcatctt 180

cttctccttc accgagacct tccggtggat caccggcgag aagaacggcg actggattat 240

ccggcaagca ctctattttc agggggattc gactacgtaa cggaaaatgg gtatcggaga 300

ttagagagcc acgtaaaacg acaagaattt ggctcgggac ttatccggta ccggagatgg 360

ctgccgccgc ttacgacgtg gctgcgttag cnttaaaagg gcccgacgcc gtttgaattt 420

cccgggttaa ccttgactta cgttggtccn gnttaaactc ggctgcgggt ataa 474

<210> 2879
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-H10

<400> 2879

aaacttcatt catagatctt tgaaatgatg agctatcact acataaacac cttatgcatt 60

gtaatttctc tcttgtcttg tctcttcatc acctcttctt ttgcaggacc agttccaaac 120

caggaaaatg gatctcagaa aattttcccc actcagatat catcacgtga tagtaaggtt 180

tctctatcga gcacggtgaa gggtctgaga gaacgtcctc catcgtctta ctctctcaag 240

atggagtctt tcaacacact catgaagtct gtttacactg agagatacga atctcgtcct 300

tttagggtcg gtagatacaa ctggacgctt gttgtgtatc cgaagggaaa caagaacgat 360

aacggtacag ggcacatttc gctatacgtc gtcctagaca actcaactcn c 411

<210> 2880
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-H12

<400> 2880

tatttcgacn cgctataggn gcccgtaang ggtcanagcc ntctcgggtc gacccacgcg 60

tccggacgct tttagctctc tcttcttctc tgtcttctcc ttccttcttc tgccgcaatt 120

ctcgtattcg tttctctcct gtgtcgcgta tttcttctct taatggtgat aataagctta 180

caaattctcc gccacagttt ttaaatgccg gcgcgagtct ccgtcgtttt gtggctccgg 240

ggaagtttcc aagtgtgaga cttagggttt tgacgaggtg cgagaaagaa aatgcaccca 300

aaggtgggat tgaagatgac gcggagcgat ttgcgagacg agagagcacg atgcctgata 360

gattcagata tttgaccaaa gaagctccag atagtccaat tatatggcca tggtttgttg 420

cgctggggtt tctcgtttat gcgtggagan ctgttttgtt tgagctatcc aactggagaa 480

aan 483

<210> 2881
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-H4

<400> 2881

tgcaatgttt acgcctggcc gatgattccc ggangccccc cacgcgtccg gaaagaatta 60

gaatctccac acaaatggtg ctccaacaac aaacgcattt tctcacannn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn ccttctcatg atttcatttt ccgatctaag cttcctgata 180

tcttcatccc taaccacctc cctctcaccg attacgtctt ccaaaggttc tccggcgatg 240

gcgacggaga ttcctcaaca acctgtatca tcgacggtgc cactggccgt attttgacct 300

acgccgatgt acaaaccaac atgcggagga tagctgccgg aatccaccgg ctcgggatcc 360

gccacggaga cgtcgtaatg cttctcctcc cgaactcgcc gggagtttgc tccgtctttc 420

ctgccgttgc ntaacttggg agccgtttcc actaacgcga atccgttcta aaatcaagcc 480

ggagatngct aaacaaggct aaaagcctcc 510

<210> 2882
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-H7

<400> 2882

gaaataatga ctactacatt cgaatttctg caaccaagaa tccacggatt tgcaacttgt 60

tgtagtagta atagtctatt gtactcgaaa gcttcgagat ttttcaacga tcgttgtagg 120

gtttatcgcc aaaatccgaa tcggtttgtc tccaattcaa tcacgcttcc tctgcagaag 180

aaacaagtta cagtgttgag aaatcacgaa aggtttaatc tttgggatgg gttttcaaga 240

aagaagagta gattagttgt gaattgtcaa gaagatgatc agaacgagag ttctagtgag 300

gaggaagaaa gcagtcagag tactccggcg aagtcggaga ggaaaagaga gaagaaagaa 360

gataaggtgt ggtggtcaaa gggcaaagaa atggcantgg cagccaataa tccaagcgca 420

agggattggg agttttgttg ttgcaattga gtgt 454

<210> 2883
<211> 512
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-H8

<400> 2883

ctgccggaac ggtccgaaaa ttcccgggnc nacccangcg tccgcncacg cgtccnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnga 180

taatgggagc ctatgaaaca gaaaaaccaa ctaaagatgc ggcggctcta gagacacagt 240

cgccggaaga tttcgatcaa ccatctccgc ttcgtaaaat catctccgtc gcttccatcg 300

ccgccggtgt acagttcggg tgggccttac agctctctct tcttactccg tacgttcaac 360

tcctcggaat cccctcacaa atgggtcaat ctcccaattt gggctcctgt ggtccaagtc 420

tcccgggaat ggattggttc aaaccaaatc cntcgggttt cccacaagtg gaccggatgt 480

aaggtccaaa tttggtcgcc ggtcgtcctt tc 512

<210> 2884
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-022-Q1-E1-A2

<400> 2884

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ccatcctacc actagcagga gcaatgtana ggagctggag aggaaagtac acacattgcg 120

tttgcagtta aaaacagctg aagaagaact cgaacgggtc aagagtggct aaagataagg 180

ctctgttctt ccctttaatt gtaaagtttc tttcctcgcc atattcttgg aactcacttg 240

ctttctacat gggggtcttc tggatctgcg ttgtcatttg ggtttantgt tgtttatgtt 300

ttgaacaant tatangtgga aaattaaaac tgaatccttt tccccccaaa ttctcatcta 360

ncaacaactc ntaaaggaca tggaagaaat caacagatct ctttgctgtt ttatgtanca 420

ttgatttgtt taaattgtaa aacagn 446

<210> 2885
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-021-Q1-E1-D6

<400> 2885

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cgtccggatg cttctaacaa acagngggtt gccactgtag ttgctcatga actggcccac 120

cagtggtttg gcaatcttgt tactatggag tggtggactc atctatggct gaatgagggt 180

tttgctactt gggtcagcta cttggctact gatagtttgt tccctgaatg gaaaatctgg 240

acccagtttt tagatgaatc tactgagggt ctaaggctan atgggcttga ggagtctcac 300

ccgatagagg tggangttaa tcatgctgct gaaattgatg aaatatttga tgcaatnagc 360

tacagaaagg gtgcatctgt catcngcatg ctacaaagct atcttggtgc tgaggttttt 420

cagaaatcct cttgctgcat acattaaaaa atcacgccnt attcagacgc caaagacaga 480

atattatggg gctgccttgg aaaccgggat tccggaga 518

<210> 2886
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-D5

<400> 2886

gcccacgcgt ccggtctttt agagactcgt tagatgcgtt ttacaggttt tctaggcctc 60

atacagttat tggcacagtg cttagcattt tatctgtatc tttcttagca gtagagaagg 120

tttctgatat atctccttta cttttcactg gcatcttgga ggctgttgtt gcagctctca 180

tgatgaacat ttacatagtt gggctaaatc agttgtctga tgttgaaata gataaggtta 240

acaagcccta tcttccattg gcatcaggag aatattctgt taacaccggc attgcaatag 300

tagcttcctt ctccatcatg agtttctggc ttgggtggat tgttggttca tggccattgt 360

tctgggctct ttttgtgagt tcatgctcng tactgcatac ctaacaattt gccactttac 420

ggtggaaaag atttgcattg ggttgcagca atgtg 455

<210> 2887
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-020-Q1-E1-D6

<400> 2887

gcactcttgg ttttttgcta aaaacagagc attttctctc tagctctcac tgtttcttta 60

ccataagttt cgtcatatta gtacatgcaa gtgtaaggga tggtgatgga ggaaggaaga 120

agcatagaag aagggctttt gcagctcaag aacaaaaacg acgattcaga gtgtcgtatt 180

actgcttgtg ttatccttag cacttttgtc gccgtttgtg gctccttctc ttttggtgtt 240

gctactggtt acacttcagg tgctgagaca ggagttatga aggacttgga tctttctatc 300

gcgcaatttt cagcttttgg ctcattcgcc actttaggag ctgcaattgg tgcactgttc 360

ctgcggtaat ctggcaatgg gtcattggca gaagaaggac aatgttgggt ctccgaattt 420

cctaagcaac actgggttgg ctctccatcg ctttgctaa gg 462

<210> 2888
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-D7

<400> 2888

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atctatacag acacatactg tattctcaaa acaatggaga ttccttctct gaataagcag 120

caagagttca ctctcgcctc cgtcactgat ctcacttctc cttcctcatc tctttcgtcc 180

tctcctgttg tagctacgtt ttcatgcgtt aatgaagtca aggaactccg atttcaggaa 240

tcgaaatcgt ctgatggttt cagttttgat cttagttcga ctcagttgtt caagttgggg 300

ccacttcagt tcacttgtgt atctgatggt tcgatttctt ctgcaaaagg gagaaatccg 360

tcattttctc cgaaggagtt ggnaataaaa atttagaaga atgaagaaag gatagcaaag 420

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<210> 2889
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-D9

<400> 2889

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cgctagaaag agtggtttct cgattcgtaa agcacgatct acagagagtc agaatctang 120

tgtttanaga agagatttcg tttgttatcg ttctggtttt aatcaaccta ggaagaaagc 180

taatgtagag catccaagag agcgtaagtc tgttagatgt ggttgtgatg gtaagttgta 240

tttgactaaa gaagttgttg atggtgttag tcattggtat gtttcacagt ttagtaatgt 300

tcataatcat gagcttttgg aagatgatca agttaggttg cttcctgctt ataggaagat 360

tcagcaaaag tgatcangan aaggattcct ttgttgtcca aaagcggggt ttccggttaa 420

tccggattgt taaanttgtt ggagttaaag a 451

<210> 2890
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-E1

<400> 2890

ngtttcctgc cgcacggtcc gaaaatccgg gtcgacccac gcgtccgttg tctttgcaga 60

tgcgacacgc aaaacgacga ttctgatctc gcttgtctga tttcaaaaac aatgagaaga 120

tagttctgat tatataacac acaaacccta cttcattcct tcatcatcgt ctccaatcat 180

tacccaaaga tccgtctttt tctttacttc atgtcgaagc aaacgtacaa agtgtgtttc 240

tgctttcgcc ggaggtttcg ttacactgca tcggaggnac cgcgtgagat naagaccatt 300

ttcgaaaagt actcagagaa tggagttatg ancgttgatc atctccacan gtttctgatc 360

gatgttcaaa aacaagatta agccaccaag agaagatgca cagtcaatta tcaattcggn 420

ancttccctt cttcancgta atgggcccca acttgaagct ttcttcaagt acccctttgg 480

ggagaaaaaa ccccccctgg cccccaa 507

<210> 2891
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-E2

<400> 2891

acgttatcct gccgcacggt ccaaaatccc gggtcnaccc acgcgtccgc nttctcagtc 60

ttcttctaga atcatctttg ctctttctcg tcgactattt gctcgccgga gaatctctct 120

cagaatggct aggtcaccga gcaaacacgg ccgcgatcaa actcaggatt gggaactctc 180

attgaaggat aaagacaaga agattaagca acaacctgct aattcgtcga atccgagtag 240

tgagacgttc agaccaagtg ggtcagggaa atatgacttt gctaaaaagt atcgttccat 300

tagggatttg tcgagtagtt tgattggaga aagtctattg ggattctagt tcagagaaag 360

gagcaaggta atgaattcct caaccagaag aaattcaatg aggcgattga tgttaccccc 420

ggagcattgc tttaccgcaa atgccgtgac ttatgcaaat ccagcatngn ttaccttaaa 480

tcaaaanatt caaaggcg 498

<210> 2892
<211> 514
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-E3

<400> 2892

aactgttttc ctgcccgcca ccgggtccga aananccccgg gtcnacccac gcgtccggnc 60

gccggagaag tgaaaagacg ttgatggtga ttatgaagaa gatgaaagat tcagtcttgt 120

tcctcgtcgt aggcctcttc tctttatctg ttttggtctc tcagtcgatc gcagggagag 180

tcaaagctcc attgttgcag agcaatactg gtggattagt tttcagcaaa tccttcaatt 240

cgatctatga tacttctatg tacggacgct tgcagctcaa caatggcctt gctcgaactc 300

cacaaatggg atggaatagc tggaatttct ttgcttgcaa tatcaatgaa actgtcataa 360

aggaaactgc tgatgccttt ggttcacctg gcctggctgg attaaggata catacattca 420

ataattgatg attgcnggcc aaatttgtac ccaatcaaaa gggcaattgg ttctcaancc 480

tgaaaccttc caacaaggaa taagcttctt gcgg 514

<210> 2893
<211> 456
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-E7

<400> 2893

gggatcttct gctgcattgg tcttggatgg acatgacttg aagctacttt ctgtcaaggt 60

tgaggggaag cttcttaagg aaggggatta ccagttggac tctcgccatc taactcttcc 120

ttcgcttcca gctgaggagt cctttgtttt ggagattgat actgagatat acccccacaa 180

gaatacttca cttgaggggc tttacaagtc ttctgggaat ttctgcacac agtgtgaagc 240

agaaggtttc cgcaaaatta cattttacca ggatcgtcct gatataatgg ctaagtacac 300

gtgtcgtgtg gaaggtgaca agacacttta tcctgtgtta ttgtccaatg gaaacctcat 360

ttctcaagga gatatanagg gtggtcgaca ctatgcctta tgggaggatc cattcaagaa 420

accgtgctat cnatttgctt tggtggctgg acacta 456

<210> 2894
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-E9

<400> 2894

cgaaaatact gtgttctttg tttcttccat cgaaatcgaa aaaagctaag atctttgcgt 60

tttgaaacga tggcggaaga acataagcat gatgaatctg tgatcgctcc tgagccagct 120

gttgaggttg tggagagaga atcgttgatg gataagatat cggagaagat ccatcacggt 180

ggtgattctt cttcgtcttc ttcatcttct nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnncctctt ctccttcgtc ttctatgaaa tcgaaagttt accgcttgtt cggacgagag 300

caacctgttc ataaagntct cgggngtgga aaaccggctg atataatcat gtggaagaac 360

aaagaagatg tccgggggggg tncntggggg ggctacaact gcctgggttg tgtttgaant 420

<210> 2895
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-F1

<400> 2895

aactgttatt cctgccgcca ccggtccgaa aancccgggg tccacccacg cgtccgcact 60

tacatcgctc tcggaagtta ccaagcttgt catcaagtga gatcgatgaa gccgctgcta 120

ctcctctaca ggcagtgaaa ctccttgcta tgtatctatc gagtcctgaa aacaaggaat 180

caaccatttc gagcttgagg gaatggttgg cagatccaac tgtaggaaac aatgctatta 240

tcaggttgat tgctggtact atattcatgc atgaggaaga ctataatgag gctctgaagc 300

acactcattc tggaggaacc atggatctgc atgctttgaa tgtccagata ttcataaaga 360

tgcacagatc agattttgcg gagaaacaac tgagaagtga tgcaacaaga ttgatgaaga 420

acaacaacaa tcaatcaact ccccaacccc ttggttgaac cgggaaatna gggggttcca 480

natacaagga anctaaccna accttcaagg atttc 515

<210> 2896
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-020-Q1-E1-F10

<400> 2896

ccctttcga tttcattgat aaaacgcaaa tcgatctctc gtgtggaaga agaagaagaa 60

cacgatggga acaatgggta aagcattcta cagcgtagga ttctggatcc gtgaaactgg 120

tcaagcactt gatcggctcg gttgtcgcct ccaagggaaa aatcatttcc gagaacagct 180

atcaaggcac cgcacactca tgaatgtttt tgacaaaacc cctaatgtgg ataaggggggc 240

ttttgtggct cctaacgctt ctctctctgg tgatgtccat gtgggaagag gttcttccat 300

ttggtatgga tgtgtcttga gaggagatgc taacagcatt agtgttggag ctgggaccaa 360

tattcaagac aacgctcttg tccacgttgc taagaccaac ttaaagtggg aaagtcctac 420

ctactgtcat tgga 434

<210> 2897
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-020-Q1-E1-F11

<400> 2897

tttttgcggg ctataaacac agatttcgat aggattattg caatgtgcaa aaactggcag 60

gacgataatg gggacttttc agcagtgaac atggatactg ctgttgctat tcgcactctc 120

gaggcgactt ataaatcatc tgcagatgct gattctgtcg aagctatgat aataaaactt 180

accgaaaggg agggcacaca gcttaaatcc aagggaaagg ccggtgctgc tacacgtgtt 240

gcagtgctca catggcgatc acttttagtt atgtcaagag aatggaaata ctattggctc 300

cgacttatcc tctacatgat tcttacactt agtattggca cattatattc tggcttaagt 360

cactctttgt cctctgttgc agtaagtcct ctaaaccatt ctcagcatgt cacatttgag 420

taccaagaga tcaattatcg 440

<210> 2898
<211> 493
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-F2

<400> 2898

gcacggtcca aanatcccgg gtccacccac gcgtccggna gaaaccattt ggagttggag 60

ctttggacga cgacaatggc cccgaagaaa ggagtgaagg tagctgctaa gaagaagacc 120

gcggagaaag tttcaaaccc tctattcgag aggaggccta agcaattcgg tattggtgga 180

gctttacctc ctaagaagga tctctctcgc tacatcaaat ggcccaaatc catccgtctt 240

caaaggcaaa agaggatcct gaagcanagg ttgaaggtcc ctccagctct taaccaattc 300

accaagactc ttgacaagaa tcttgctacc agcctcttca aggtccttct gaagtacang 360

ccagaagaca aagctgccaa gaanggacgt cttgtaaaga aagcccaagc tgaanctgag 420

ggaaagcctt ctgagtctaa naagccaatt gtnntcaata acggctcaac caagtgacct 480

aactcattga gca 493

<210> 2899
<211> 456
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-D4

<400> 2899

ggnggagatg tcgacgattt cgatccatcg gactgagact ctacgagtca ctcacgctcg 60

gtcacgaatc ttccggcana gatatcggag aactatccct ctttggaaat taacaatcan 120

ttcgagatct tctgatacat ctaagaagga agaactctct gtacaaatat caattcctcc 180

tcaagttgat caatcaagac ctgaaggttt gacattcgat cgtttacaan ctccggagcc 240

agagtttggt catgangata gatttgagtt tggtaaattc gtagctacga naagctatgc 300

ttgatgaatn aatattgggg taatgtcact cccantgaaa gatatgttng attactacaa 360

nnnggaantt ggcagagcan gatttaatgc cantaaaaga aagatgttaa aggggatcca 420

ngncagaaat gctcatgtac cgttgcngta agaagg 456

<210> 2900
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-B5

<400> 2900

aacctccaaa tcgtgaggaa atccagagtt ccatcagatc taactctctt agatctgatt 60

atcatggatt actctttcct tctaatcatt ctcttactca caatctctac ttcatgttgt 120

gctgctcctt cttcttatgt ggaagaacaa ttgagagaca gaatcagtaa cttacctgga 180

caacctagta atgtcgattt tagacagtac tcaggctatg tcactgtgca tgaagaacgt 240

ggaagagctt tgttctactg gttggtcgag tctccgttgg cccgtgaccc aaagtctaga 300

cctttggttc tgtggctcaa tggtggncct gggtggtcct tccggttggc ttaanggtgc 360

tgctgaaaga aaattggncc ctttttcgtg gttnggntcc ngaatgggca aagaactccn 420

tcaattccca aaacttttaa ngccttggga ataaaatttg gnaaaaactt tgccaat 477

<210> 2901
<211> 455
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-B6

<400> 2901

gcnctctgaa gaatccgtca tggcgtcgtc aagcgatcct tcaaaaccag taatggagag 60

gaagaagaaa ggagctccga tcaaattctt agtacctctc atctacgcac ctgcgcttcc 120

tttgattcgg ttgtctttaa ggcataagcc agttctaaga gatcgtctct tcggtcttgt 180

cctcgtcggt gcttttgctc atggcttcta tcttgtaacg gatatatatg atgcagagag 240

caaatgaaaa actgggagtt gcagtcagtc aacaagatct caatattttc tcagattgtc 300

tttcagataa ataatttttg ccttttgggt ttaaacctat ttgacacatg aactaangga 360

tttttcctta tgaaaccatt tagtcatcct ggaaatggta acatcctttt tacaattttt 420

caatccccgg tccttggatt aaaaacaaac aagcc 455

<210> 2902
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-B7

<400> 2902

tttntcttcc ttttaacttt gattctctcc ctcaggatct catttcccga ccaaactcat 60

cgaactaaga actcactgta ataaaacttt taaaaggtgt aaacaccaat ggcagtttat 120

tacacaagta atgtcggttg ttaccagcaa gaaccaatct ttctcaacca tcaacaacaa 180

aaccaacaag cttcttcttc atccgccgcc gcttctttca ccgtcaccgg cggcgatact 240

gttcgaaacg agatggtttt tatcccacca accaccacag gagacgttgt aacaggaaac 300

ggtaccgttt caagcagcga tctaagcttt cacgatggtc aaggactgtc tttgagcctt 360

gggtactcag atctctgttg ctccgtttca ctttcacaat accaattggg ggttacnanc 420

agaatccctc aattcagtca aggaaangtc ac 452

<210> 2903
<211> 456
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-B8

<400> 2903

tcgtttgcgt ttgcgagaca ataaagacgc tactgatata ctagaagttt caccagcaaa 60

ggatcttgaa gaaacaaact taacttgtga agcatcatcc tttttgtcta ttgatatgaa 120

annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn nnnnnnnntc tgaaaa 456

<210> 2904
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-C10

<400> 2904

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ttagttctgg tgatcattgc tctgtttatt actaaaaact cacttggcag gcttcttgag 120

ggatccactg gtattatcaa tggtttcctg acgtggacaa acaccaagaa gcccgtggac 180

gctgaaagct gtgtcgaggt cggttgtgca attatatatg acgttgttgc tctatatatt 240

ttatgttgtt cattgtattg aatgtatcgt gtggtctgtt atctactcaa gtcggctgta 300

acattgtgaa ctactttatc tgtagaagct attactttat cttcggattt tggtttggga 360

actgctctaa catgcgctgt taccatcang cgcctggaca aaacaaagca gacatgatgc 420

cagattccca a 431

<210> 2905
<211> 572
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-C2

<400> 2905

aactgtttct cctgcccgca ccgggtccga aaatcccggg tccacccacg cgtccgggaa 60

taccaaaagt tgtgagcctt gaattaaatg gggaactagt tgaggggaat attatcaagg 120

gtcaagcagt ggttgcatgg tgtggtggga caccaggaaa gtgtattacc agttggttga 180

ggagaaagtg gaatgggagc cctgtggtga tcgatggagc tgaagatgag gaatatatgt 240

tatctttaga tgatgtggga tcaagtatgg ttttcatgta cacaccagtc acagaaggag 300

gtgcaagagg agaacctcag tataagtaca cagagttcgt aaaagcagcg cctccatctg 360

ttaagtaatg ttccgaattt actgggaaga atgctgtttg aaaggctgcc gttcctcaaa 420

gggggggtttg ggagaattaa tttttgggan ggcaaanggn aaaggtccct aaaccaaagt 480

tttccaaaat tgggnttacc gggaaagaaa acaaagggga aaaccangga agaaaactcc 540

tccctttgaa taatcccggg cttgggnaaa cc 572

<210> 2906
<211> 527
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-C3

<400> 2906

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ctctctcgat tggtatctct cgctccgtcc ttcctcagat ctgatcgtcc gccggttttc 120

acgatgccgt cttcctcctc cgccgccgtc ctcgtgttcc ttcttctcgt ttcccttctc 180

actcctacgt tcgcatccga ttcagatcac aagtatcaag ccgaggagca ggtcacccta 240

tgggtaaaca aagttggccc atataacaat ccacaagaaa catacaacta ttacagtctt 300

ccattttgcc gcccatctgg aaacaatgtt cacaaatggg gtggtcttgg tgaagttcta 360

ngtggaaatg agctgattga cagtgagant gcgataaaaa ttcaatgaag aaatgtcgaa 420

gagaaagtgt catcctgtcc gccttgaact ccaatgaagc cnaaggtcaa gcaattttaa 480

aagatggcca attgaatcca anctaactgg gttcgaaatt ttttaan 527

<210> 2907
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-C5

<400> 2907

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tccaacacag agcacacaga agaggatgtg acagaccaga tggtgggaag atccgctctt 120

ccgaatcagt ttgaggataa aaacccgcta aacttcccgg gactccgcag agatgtagac 180

gccatcgaac gccatttctt gagcggaatg aagagtttct ttgatgcggc tgaagagatg 240

acaagcagct tatttgatat catgggagac catcacccaa gcaccaggag aggagggata 300

cccattgaaa accatcccaa ggtagaggag caccgcaatg acgaaactgc cctacacgac 360

cacactcctc tggcgagatt gatttctccg ggccttggcc aaggacgttt tgagaaaagn 420

cntctgcntc ntcctcctcc ttccttttt ttttcacaaa ggtcg 465

<210> 2908
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-C9

<400> 2908

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ttagacaagc anatatgana cccccagtta caggaggacg tggtggtgga ggattcagag 120

gtggaanaga tggtggtgga agaggttttg gaggtggaag aagctttgga ggaggccgta 180

ctggtgacag aggccgtagt gggcctcgcn gcagaggacg tggtgcgcct cgtggtcgtg 240

gaggaccacc tcgtggagga atgaaaggat gaagcaaagt gattgttgag cctcacagac 300

atgcnggagt gtttattgct aagggtaaag aagatgctcn tgtcactaag aatttggttc 360

ctggtgaaac tgtttacaaa tgagaaanag aatcncctgt tcaaaatgaa tattggaact 420

aaangttgaa tacagagttt ggaatccgtt taaatc 456

<210> 2909
<211> 519
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-D1

<400> 2909

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gtccggaagt gagagacact gagacttgta gttgaccgga tcattctcac ttcgccggcc 120

gacgttcttc cttccgccgt cggtatctat atttacgatc cacgatctct cttgctgttt 180

ctgtcttcat cgtgacgaaa atggctgctc gtatcgggat cttctccgtc ttcgtagctg 240

tattgttatc tatttctgca ttttcctcag ctcaggatct ccagatcgta aatgccgagc 300

gaaggattga tttaagctca catatcgtga aggccttctt gactctcaag gttgaaaata 360

ttgggaaaga tcctgctgca gaaatgcttc ctgctttccc aactacccag atnaagaaat 420

tggctaaggt acaagcccct ggcaactaac tggcaaagaa agaagaagaa aacttaattt 480

gccaataaga tttaaaacca actgaaacaa cctgaagca 519

<210> 2910
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-D10

<400> 2910

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tgagaggaga gagaggaaga aaaaatggga gagatgaaga gtatgcaaat gggtgtgatt 120

ggagcattgt ttctatcagt tgcatcttct gtctccattg tcatttgcaa caaagctttg 180

atgaccaatc ttggtttccc ttttgcaaca acacttacta gttggcattt gatggtaaca 240

tattgcacac ttcatgtggc atataaacta aacttctttg agaataaacc aatagacatg 300

agaactgttg ttctctttgg cctcctcaat ggcatttcca ttggtctcct caatctcagc 360

ctcggcttta attccatcgg cttctatcaa atgaccaaac ttgctatcat accattcact 420

ggtcnttaaa aacctcctcc tcaacaaaga aattca 456

<210> 2911
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-D11

<400> 2911

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ggaggaactc ctaccggccg gttcaccaat ggacggacca tcggtgatat cgttggggaa 180

gaactcggat cagcgaacta cgcgatcccg ttcttggcac cagacgcgaa gggaaaagct 240

ttattagccg gagtgaacta tgcatctgga ggaggaggaa tcatgaatgc caccgggaga 300

atctttgtga atagattagg tatggatgta caagttgatt tcctcaacac tacacggaaa 360

cagtttgatg atctacttgg aaaagagaaa gcaaaagatt acatagccaa gaaatcnata 420

ttcctcaatc actataggag c 441

<210> 2912
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-D2

<400> 2912

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cttcttccga cgacgactgt tactccctca aggtatgtct cctccgtctc ctcctttctc 180

catcgccgtc gtgatgtctc tggatcggct tttaccacct ccggtagaaa tcaacaccag 240

acacgatcga tctccgtcga tgcgttgaag ccaagcgaca ctttcccgcg ccggcacaac 300

tcagcaacac cggatgaaca agctcanatg gcgaaattac tgcgggattc gataatccca 360

aacaacgttg attgattcca actgttcccg aaaatccgaa ttcggttaan attcnaattg 420

aaanttttttc cgggaataat ttngatnaaa gggnttaanc gggngaattc aaaatgaatt 480

ganca 485

<210> 2913
<211> 503
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-B3

<400> 2913

cacgcgtccg gacttttttcg ggagactgtt cggggaataa aaaaaagtct gataaagctg 60

cttcgtcgag agataaacgg aggtggagct tcaccaccag atcttcaaat tccagcaaga 120

gagctccggc ggtgacgtcg gcttcggtgg ttgagcaaaa tggtttggat gctgacaaac 180

atgcgatagc tgtggctgct gcgacagccg cggtggcgga agcagctctt actgctgctc 240

atgcggcagc tgaagtcgtg agactaacaa gcggaaacgg cgggagaaac gtcggtggcg 300

gtggaaactc gtcggtgttt caaaatagga agaagtaacc gtcggtgggc tcaaggagaa 360

tatcgccggc gatgaagatt caatcccgct tttccgtggg ttatcctggg cganggagaa 420

gcaatttacg angcaactaa aagggcantt anntgaaagc cttcaaagca attaanntga 480

anaagggaca caatanttga aga 503

<210> 2914
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-H2

<400> 2914

gtancggtcc gatattcccg gggcgcccca cgcgtccggg aagaagaaga agcggtagag 60

agaaaaccga tgctcacagc gtttgcaagt cacgcgcgtt ctcacgtttt cgcgtttgtt 120

accgtcccaa caatcacgcg ccgcctccgt atanatatct tacgccaatc acctctctcc 180

tcttctcttc tcctaaacga aaccttctct aatcgaccca attctgtttc tcgtcgttgt 240

tattgttcga gctctgcgat aatgggttct ttcggtgttt ggcgaagcaa ttacagtatc 300

ctgcgactcg gcgtgatgat tccgtcgtcc gatgactatc aaggggtcaa gatnggagat 360

ncgtaccgtt gggtagagga ttctgatgct gaagaagtga aagagttgtt caagaagcaa 420

gtnaaattga caaaatcctg tacttgaaaa agtgtgaaac aaaaggataa gctccgtcan 480

gaatataacg aaaacttatt ggtna 505

<210> 2915
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-H5

<400> 2915

ggcagaagaa aacgcggcgg ggaatgcaat ttgttcaatc tgctacgaag atcttaaacc 60

ggtggttgag aatctgcaat caatctccgc ttgtggccat gtctttcacg aactttgttt 120

gcagcaatgg tttgagtatt gcccgagtac gaacaagcga aattgtccga tttgtaagca 180

gaagtgctct ctaaaggatc cttgtcgact ttactttcag tcttctggga atcaaaccga 240

ttcgattgcc tcggataagg ttgttggaat cgaagaagat ccggttttgt tgagaagaga 300

agtgaagcgg ctttgaaggg aaggtacaga atcttacttc ggctctggga aggcgaagaa 360

aaaaggagaa tgtttgaagt cccctgataa gttgcatcaa tgcaatgaag caanttgaan 420

ggaggataaa gttgaaaang tggggaaggt ccttcaaaga aatatcaacg aatcaa 476

<210> 2916
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-H9

<400> 2916

cattttgaag acgaaactca tcatcatctt cttcctcaga caacaaaaaa agcttttcac 60

tttctctcca cccttctctc tctccttctg aaagtctctc tctttgccgt cgttagcctc 120

ttcctacact tggggctgcg attcttccaa tcctccgatt tcaatttcat cctctcaatc 180

atagtttgaa atcatcgagc ttttacggtg ctgttggtgt ttgacgccgt aaaattcgat 240

ccttttttat acatttgatg ttgattttat cgatagtttt gtgagatcga ttttttaggg 300

tttcgagttt ggcgctgact tgagggtttg attggatgag aataaggggt tatgggactt 360

gagtcaattg ggtttgtccc cctaatcatc gcaaattcct gaattctcaa ctccttggga 420

agggantaag gatccgtt 438

<210> 2917
<211> 537
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-A1

<400> 2917

ccctgccgca cgggtcgaaa nccgggtcga cccacgcgtc cgcaagctct gaaattccac 60

gcccacatct cctccgtcct cttgagatcc ttctcttcat tcattttctt gctcaacttg 120

agttgcttcc aacatcttgc aagattgtct ttgagttcat tcaggtcttg aagaagagca 180

ctcttttaag ctgtgtgaaa cttgcgccgt tcctgtgaag aactactttt ggcattgcag 240

atttcagaga gctgtgattt gtgctatctt aaaaacggac aagttctatg ttgtggcgga 300

tgagatgagg gatgctatct gggttgatga attttctgaa tgcctgtctc tgggcacggg 360

cagatnagca ngctccgtcc tgcctcagan tccgggtggg ccgccaaana aggggtttgg 420

ctcccngggt tcaagaanac tccggggnca acaacgntcn tttgggngaa cntcctccca 480

atgggccgtt cgnttcaaag gccaaacaag gctttgccaa naagggacca aaaagcc 537

<210> 2918
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-020-Q1-E1-A10

<400> 2918

caaagcctct ctaaataaaa acaaaaagct aactgaataa gaagaagtag tgatgcatat 60

cacaaaacca cacgccgcca tgttttccag tcccggaatg ggccatgtca tcccggtgat 120

cgagcttgga aagcgtctct ccgctaacaa cggcttccac gtcaccgtct tcgtcctcga 180

aaccgacgca gcctccgctc aatccaagtt cctaaactca accggcgtcg acatcgtcaa 240

acttccatcg ccggacattt atggtttagt ggaccccgac gaccatgtag tgaccaagat 300

cggagtcatt atgcgtgcag cagttccagc cctccgatcc aagatcgctg ccatgcatca 360

aaagccaacg gctctgatcg ttgacttgtt tggcacagat gcgttatgtc tcgcaaagga 420

atttaacatg ttgagttatg tgttta 446

<210> 2919
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-A11

<400> 2919

gttagcnttc ccgtagccgn cngaaattca aagtnccacc cacgcgtccg gttcgttang 60

agtactgtgg agagtagcaa accgaagatc atcaatggct cttgtggtta tgttctagaa 120

gatgtaccgc atctctccga ttaccttcct ggtcttccta cttatcctaa tccattgcaa 180

gacaatccag cttactcagt ggttaagcaa tactttgttg atgctgatga cagtgttcct 240

caaaagatcg ttgttcacaa ggatggtcca agggggattc attttagacg agccgggcca 300

cgtcagaagg tatacttcga atctgatgaa gtgcatgctt gcatagttac ctgtggaggt 360

ctttgtcctg gccttaatac cgtgattaag agaaatagtg agcagtctat ccttatatgt 420

atggagtgaa gagaatactg gggaatanat ggtggatata gangctttta tgcctaagaa 480

tactgtcncc cttggac 497

<210> 2920
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-A3

<400> 2920

gggccnccac gcgtccggaa tcanatcaac ncngacacca atcattacac acaggttgat 60

actatggnga gaaagcctct tgaggntgag ccatctacta cgacgactaa caccgatgtg 120

gtcgattctt tcgaggaaga gcagagaaaa atcgtttata gaggatggaa agtcatgcct 180

tttatcattg gtaatgagac atttgagaag cttgggatca tagggacatt atcaaacctt 240

cttgtgtacc taacttctgt attcaacctt aagagctaca cagctgcaac tatcatcaat 300

gcctttagtg gtacaatcaa tttcgggact tttattgctg cctttccttt gcgacactta 360

ctttgggtcg ctacaagact ctcaattgtc ccctggtcat cgcttgtttt ccggggatcg 420

tttgtgatac naacttactg ctgcaattcc gtcgttgcac ccccgttgcn tgcgggaaca 480

aaat 484

<210> 2921
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-A4

<400> 2921

aactgtttat cctgcccgca cggtcgaaaa tcccgggtcc acccacgcgt ccgcactctc 60

cttctgaaag tctctctctt tgccgtcgtt agcctcttcc tacacttggg gctgcgattc 120

ttccaatcct ccgatttcaa tttcatcctc tcaatcatag tttgaaatca tcgagctttt 180

acggtgctgt tggtgtttga cgccgtaaaa ttcgatcctt ttttatacat ttgatgttga 240

ttttatcgat agttttgtga gatcgatttt ttagggtttc gagtttggcg ctgacttgag 300

ggtttgattg gatgagaata aggggttatg ggacttgagt caattgggtt tgtctcccta 360

atcatcgcaa attcctgatt tctcagctct ttggaaggaa ttangattcg ttgatttcga 420

gttttgngtt gtgttgggtg atgaaganat tgggtttggn caaattgagg ggttaanggt 480

gttggtttac tggtttgaat ccnga 505

<210> 2922
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-A6

<400> 2922

ttcccgggnc cacccacgcg tcngcactct ctctctctct gcctcctttc ggattcaaat 60

ctcagatcta gctcaaccat ggcgttgctc gtcgagaaga cctcaagtgg ccgtgaatac 120

aaggtcaaag acatgtctca agccgatttc ggtcgtctcg aactcgagct cgccgaagtt 180

gagatgcctg gactcatggc ttgtcgtacc gaattcggac cttctcagcc attcaaaggc 240

gctagaatca ccggatctct tcacatgacc atccaaaccg ccgtactcat cgaaacccta 300

actgctctcg gtgctgaagt cagatggtgt tcctgcaaca tcttttccac tcangaccac 360

gccgccgcaa gcatccgctc gtgactccgc cgctggtttt cgccctggaa aaggtgagac 420

tcttcaaggg gtactggtgg tgtaccgagc gttgcccang attgggggtc angttggtgg 480

cctgatctg 489

<210> 2923
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-A8

<400> 2923

gcggacgcgt gggcggacgc gtgggcttat ttcgaaaggg taaaaaccaa aagcgacgca 60

aagggcaaaa tcggaaaaag tgttttattt atggccgccg ttagtagttc gtcggagacc 120

ggagactgcg gcgttacggg aaagagagat gagatcatgt tgttcggagt tagagtcgtg 180

gttgatccga tgagaaagtg tgtgagtttg aacaatctct ctgattatga aaagtcttct 240

ccggaggatg agatccctaa gatagtcacc gccggagctg gagatggtga agataagaac 300

gaaacggatg cgacggtgat tgtcgctgac ggttacgcct ccgccaatga cgctgtccag 360

atttcgtctt cctcccgccg ggaaggaaac caaggggtt ccatgggcaa gagaaccaan 420

cataanaagg ttcttgattg ggntgccaca aaatnaggga aaaggagatt 470

<210> 2924
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-B11

<400> 2924

actgttagct tcccgtagcc gtcnnaaaat tcaaanngnc cacccacncg tccgaagatg 60

atgattcaag agattttgat ttttcaagaa aactctgttt ttcctctttt tgtttttgcc 120

tcttggggca tttggagagc aatggcgact tttgctgaac ttgttttatc gacttctcgc 180

tgtacatgcc cttgccgttc attcactaga aaacccctaa ttcgtccccc tttatctggt 240

ctgcgtctcc ccggtgatac caaaccattg tttcgttccg gacttggtcg gatttctgtt 300

agccggcgtt tcctcacggc cgttgctcga gctgaatcag accagcttgg tgatgatgac 360

cactcaaaga atgtggaaga taagcagaag aaagcaagcc agcttaagaa aagagtgatc 420

tttggtattg gcattggttt anctgttgga tgtgttgtgt tagctggagg atgggtttca 480

ctgtagcttt aa 492

<210> 2925
<211> 570
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-020-Q1-E1-B2

<400> 2925

aactgttatt cctgcccgcc accgggtccg aaaatcccgg gtcnacccac gcgtccgcgt 60

tcttgtaatg gaaatctaca ccatgaaaac gaattttctt gtactggctt tgtctttgtg 120

tatccttctt tcaagcttcc atgaggtttc ttgtcaggat gatggtagtg gtttgagtaa 180

tttggatcta atagaacgtg attatcaaga tagtgtcaat gctcttcaag gcaaggacga 240

tgaagatcag tctgcaaaga tacagagtga aaaccagaat aacactacag tgactgataa 300

gaacactatt tctctatctc tatcagatga atctgaggtt ggatctgtta gtgatgaaag 360

cgttggacgt tcgaagtcct gttgggatta aaatcaaacc ttgaantccg aagctcaatc 420

acaaataagt aattnancca aagcctggga ttctggaatg ggtggtccaa agggcttgna 480

aatcccaaag ggaatggaat ggaatgaaan aaanttatcc tggccccaat aggaacaaga 540

aaaaatggtt ttgggaagga aaatccnaaa 570

<210> 2926

<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-H12

<400> 2926

gnccatccac gcatccggaa atcttcagcg ngatgatgat aaggttgacg tggtttcggg 60

ttctagaaga tatggatctg agaactggat gtcctcagcc aggcatgaac ctacttacac 120

agatttgctc tccggctttg ggactaacat agatccatcc catggtcagc ggataccttt 180

ttatgaccat tcatcatcac cttctatgcc tgcaaagaga atcttgagtg attcagaagg 240

caagtttcga ttatcttgct aaccagtggc agatgataca ctcctggtct ctccctgaag 300

ttacatgaat cncccaaagg acctgcaagc aactggatgc ctctctccaa agggcgatgc 360

aatgtttaat acaacgaata tccnggtcct aangggccaa ccaacggaaa atgcctgggg 420

ggaactnggg caataagtcc anctgccttg aantaataag anggaatggg ccat 474

<210> 2927
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-G6

<400> 2927

aattcnacgc ggacggtacc ggaacnaaat tcccgggccg acccacgcgt ccacggacgc 60

gtccgcccac gcgtccgttc tcaactaact tagttaggga tatctccggt catggatctc 120

aggcggagac agtggttctt gtcggctatt ttgctgtcgg cggcgttgct gattgacccg 180

caattctcga cggcggcgac ggcttcggag aatttggtat ttgaagttcg aagcaagttc 240

gccggaaaaa gagtaaaaga tcttggagct ctcagagctc acgacgtcca ccgtcactca 300

agactcctct ccgccatcga tattcctctc ggcggcgata gccagcctga gtctattggt 360

ttatacttcg ctaaaatcgg actcggaact ccatcaagag acttccatgt tcaagttgat 420

acaggaagtg atatcttatg ggtgaattgt gctggttgca tcaantgtcc taaggaaaaa 480

tgattctggt aaaaccgaaa acctaatgaa gttgggt 517

<210> 2928
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-H1

<400> 2928

ccgcccntac cggtccaaaa tcccgggncc ncccaagcct ncgtnacntt natngangga 60

aaaaaanctt tngacaatgg gcacagacac agcaagnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnatg ttaaacctgc cggagaacgc 180

cgcggatcat ccggttccgg aaccgtcgga tcgtcaggct ccggaacagg cggatctcgt 240

tccaccacat ctactcagca gaatggtcgg atcttaggtc ggccgatgga ggaagtacgg 300

agaacctatg agtttggtcg tgagcttggt cgtggccagt ttggtgtcac gtactcgtaa 360

ctcacaaaga gacgaaacaa caagtcgctt gcaagtcaat ccctacgcgc cgccttgttc 420

acaaagacac attgaagatg ttcgccgtga agtcagatta tgcacatctc ancggtcacc 480

ggaacatatg gacttgaagg aa 502

<210> 2929
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-H12

<400> 2929

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gatgaagttc tgnaatacta ccctcatggn tatcatggtg ttgataaaga aggaaggcct 120

gtttacattg aaagattagg actacttgat ccggccaagc tcatgcaagt cactacagtg 180

gaaagattca taaggtatca tgttcgagag tttgagaaaa ctgtcaacat aaagcttcca 240

gcttgctgca ttgctgctaa gagacatatt gactctagca caacaattct agatgtccaa 300

gggcgtgggg gttcaaagaa atttctccaa agcctgcgaa ggggattccc ataatccaag 360

ctgccnaaaa gaattgatna ccgattaact aaccctggaa nacactttca accggaangt 420

ttcaatcaat caatgggtgg gctccngggg tttaaacct 459

<210> 2930
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-H2

<400> 2930

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caccggttta tggaatgact gattaccggc tacaaccaac gatgaatctt tgggaccaac 120

cgacgacaaa cgcttctaat gatgggaagc tttcatgaag ctcttccgat atctcaactt 180

tatggcctcc ggcgtcgacg acaaccacga cggcgacgac tgaaacaact ccgacgccgg 240

cgatggagat tccggcacag gcgggattta atcaagagac tcttcagcaa cgtttacaag 300

ctttgattga aggaacacac gaaggttgga cctacgctat attctgggca accgtcgtat 360

ganttctccg gcgcctccgt gctcggatgg ggaaatggtt attacaaaag gtgaagaaag 420

ataaagcaaa cccgagacgg agattgaatt cgccgccgtt ttctactccg gcggttaagg 480

atncaggaaa aaattttgaa 500

<210> 2931
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-H3

<400> 2931

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cgagtttacc tggtactcct caaaggttta gtattccgca gcgattagct tctttgggtc 120

aagatttcga gagaaacgga aaggaaggaa ttttgataag aagattcggt atacagtccg 180

caaggaggta gctttgagga tgcaacgcaa taaaggtcag ttcacatctg ccaagtcaaa 240

caatgatgaa gctgcatctg ctggatctag ctgggggtcg aatcaaacct gggccataga 300

aagtagtgag gctcagcatc aagagatctc atgtcggcac tgtggaattg gcgaaaagtc 360

aactccaatg atgcgacgtg gacctgccgg gccaaagaac actttgcaat gcatgtggac 420

ntatgttggc aaacaaaggt gcctttaagg acttatccaa agcctctcct caaacagcca 480

anaatcttcc tttaaataag aatgaagatg caaat 515

<210> 2932
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-H5

<400> 2932

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cgataattct ttggactgat gaattaaagg gaaacgctga gtgtaaatca tacaacagtt 120

ctaagtcgtg aaaacaaaaa aaagatggct tgtagaggtt gtttggagtg tttgttgaag 180

ttactcaact ttctcctggc tgttgctgga cntggcatga ttggttatgg tatctattta 240

ttcgttgagt acaagagagt taccgataat tctgttacat tcgatttgac taatggagat 300

caaagttacn tttcgtttgg gaggcctatt cttaaggctg tgtcacngtc ttcaaanaac 360

ctttganaat cttcccaaaa ncgtgggtca aanacttgtc atgggaattg gngtgggncc 420

cctttgtaan ttcttgccgt gg 442

<210> 2933
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-H6

<400> 2933

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cccactgatt cagcagctct ttgaactact cttcgacaat ggccgaacgt ggtggagaac 120

gtggtgttga gcgtggtgga gaacgtggtg atttcggacg aggattcgga ggccgtggag 180

gtcgtggaga tcgtggaggg cgtggacgtg gaggccgtgg tggtcgtcgt ggagggcgtg 240

ccagtgaaga agagaaatgg gttccagtga ccaagcttgg tcgtctcgtg gcggctggtc 300

atatcaagca gatagagcag atctatcttc attcactccc ggttaaggag taccagatna 360

ttgatatgct catcggtcca acattgaagg attaagtaat gaaaaatcat gccggttcaa 420

aaacaaacca aaggctggtc aaaaggacta aaattcaang gcctttgttg tccttngana 480

atggtaaagg tcaatgttgg ggnttgggaa t 511

<210> 2934
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-H8

<400> 2934

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gatttgctat cttagtaacc ttggcacttg ccattgccac tgtttcggtg gttatagctc 120

aagtccctcc ggagaaacaa ttcagagtcg tcaacgaagg agaattcggt gaatacatca 180

ctgagtacga cgcaagttac agattcatcg aatcatcaaa ccagagcttc ttcacatcac 240

cattccagct cttgttttac aacactaccc ctagcgccta catcttagct ctccgagtcg 300

gactcaggcg tgacgagtct accatgcgtt ggatatggga cgcgaatcgc ancaaccccg 360

tcggagaaaa cgctacactc tcactcggcc gtaacggcaa cctcgtcctc gctgaagctg 420

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ctaaccaacn gg 492

<210> 2935
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-H9

<400> 2935

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ccttggtatg ataatctttg ccgtccagtc acagatcttc tcccgttgat tgctcgtggt 120

gttagaggtg ttactagcaa ccctgcgatc ttccaaaaag ccatttccac ttcaaatgct 180

tataatgatc aattcaggac acttgtggaa tcgggaaagg acattgaaag tgcgtattgg 240

gaacttgtgg tgaaggatat tcaggatgcc tgcaaacttt ttgagccaat ctatgaccag 300

acagaangtg cggatggcta tgtccctgtt gaagtttcan ctangcttgc tgatgataac 360

caaaggaact ggtgaaagct gcctaaataa cctaacaaag gtttcaaacn tccttaagtc 420

ca 422

<210> 2936
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-A12

<400> 2936

accgataact caattaactc tcttctcttg gcttctgcaa cgctgagcca ccatcgtcct 60

cttctcttcc tcttcgatct ctcctgaatc ctcaaaccct ggagagagag agagagagtg 120

acgggggaag aagatgactt ctgctttgta tgcttccgat ttgtttaagc agctcaagtc 180

aattatgggg acagattcgt tatccgacga tgttgtactt gtgattgcaa cgacgtcttt 240

ggcactagta gctggatttg tggtgttgtt atggaagaaa acgacggcgg atcggagcgg 300

ggagctgaag cctttgatga tccctaagtc tcttatggct aaggacgang atgatgattt 360

ggatttggga ttcgggaaga ctanagtctc tatcttcttc ggtacgcaga ctggaacagc 420

tgaaggattt g 431

<210> 2937
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-A7

<400> 2937

atatagagaa agagatttga gagatatatg tgtaggtgtt agggttttca ttacttgtga 60

attgtggctg tggcattgaa tagaggtgtt tggggttttg tccctttggt aaaggatgag 120

tgttctctag tgtgaagcta aattggtctt ctaagccatc tgtgtgaggg atggaagtgt 180

agaaggtgct gaaacaactc atttggatta gggattggaa ttggattcgt cttgtggcct 240

ttaccgtggt agggatttag atggtagaga aagctagggt agattaaatt ttttgtaaga 300

agagcttctc tgttgttgtt ggtgggggggt taanaaaggt tanagaaaat gtgtgttcct 360

tcctggaanc tgatgaagta cagcttccta atgggacaaa ggtgaacact ccttttaactn 420

ccggaatggg ttg 433

<210> 2938
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-B1

<400> 2938

ggaaatttgt aaaagatatg agaaattagt aaattccaga aacttattan aagcggcgga 60

tcgaattcgc gacgagcgtt ccattagggt ttcgaatcaa catcaacaaa cgacgagaga 120

aaacttttta aaacatgtac ggaggcgatt ttgacggcaa cgctgctttc gccggnggcg 180

gcttcatgcc ttctcaggcg actacgcaag cccatgaatc ctcatcttcc ctcaagaacc 240

gcgatgtacg taccttgctt cccctgacac tgaagcagtt gagcagcgca tcaaccactg 300

gcgaatcaaa tttctctatt gatggcgttg atattangac tgttgtaatc gttggacnga 360

tttcctagaa tggagaacag aatcactcan ggtcnaattt gttggttgat gacggtacag 420

gctggggttg attgtgtcag atggtgtcac gccccggcaa ga 462

<210> 2939
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-G5

<400> 2939

gcatctcaaa aaatctcagc tatggctacc tcctccgctt ggaagctcna tgancacccc 60

aagctcccca agggtaagac catcgccgta atcgtcttac atggttgggg tgaatctgnc 120

cctgatcagt acaactgtat ccacaacgct ccaactccag ccatggattc tcttaaacat 180

ggngctcctg atacttggac tttgatcaaa gctcacggta ctgctgtagg acttcctant 240

gaagatgata tgggaaacag tgangttggt cataatgctc ttggtgctgg tcgtatcttt 300

gctcaaggtg ctaagctttg tgaccaagct cctgcntctg gcaaaatcct ttgaaagtga 360

angttttaaa tacgtttctg aatcctttca anaagaatac tttgcaacct ggttggactt 420

ctcaattaac ggtgganttc aatccccttc ccgattaaac aaaa 464

<210> 2940
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-E8

<400> 2940

ncccacgcgt ccgcccacgc gtccgcccac gcgtccgctc atcttctccg ccgtttctcc 60

ttctttcgcc gcttcttcct ccgacgacgt tgacgatgag gatctcagct tcctcgaaga 120

tctcaaagaa gacgacgttc ccggcgctga ctcactctct tcctcaactg gatttnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnttttttcc gatctaggta atccggattc cgatccgtta ccgacgccgg agattgatga 300

gaaagacgtt gtggttatca aggagcgtaa cttcactgat gtgattgaga ataatcaata 360

cgttttgggt tgagttttat gctccgtggt gtggtcattg tcagtctcct gctcctgaat 420

aagctgctgc tggcacggac ctaaaggaan atggtgttgt tt 462

<210> 2941
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-E9

<400> 2941

ggtaccggta acaaattccc gggcnttatc tgatcgcaac aaaccagttt tttcgcatcg 60

gcttcttcct tttgctacta gctctcctct cttctccgaa aatggcgtta caaaacaaag 120

aagaagagaa aaagaaagtg aagaagttgc aaaagagtta cttcgatgtt ctcggaatct 180

gttgtacatc ggaagttcct ataatcgaga atattctcaa gtcacttgac ggcgttaaag 240

aatattccgt catcgttccc tcgagaaccg tgattgttgt tcacgacagt ctcctcatct 300

ctcccttcca aattgctaag gcactaaacg aagctaggtt agaagcaaac gtgagggtaa 360

acgggagaaa ctagcttcaa gaacaaatgg ccgaaccctt tcgccgtaat ttccggctta 420

ctctcctcct aaccntccta aaagtttgtc taatcgccnt tacgttg 467

<210> 2942
<211> 549
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-F1

<400> 2942

acggtcanaa atcccgggtc gnccaagcgt ncgaatcacg gcctngccga tctctctcaa 60

tctccgatca accatgagca aaggtccagg actcttcacc gatatcggca agaaagccaa 120

agatctgttg acgagagact acaattccga tcagaagttc agtatctcca cttacagtgc 180

ctccggcgtg gcccttacgt ctactgctct gaagaaagga ggagttcatg ctgctgatgt 240

tgccacccaa tacaagtaca agaatgcttt gtttgatgtt aaaatcgaca ctgattcnat 300

gttttgacaa caagtcacac tttaccgaga ttctcccatc aacaaaaagc cattggcctc 360

ccttcaaaag tccctggatt ataaattccg gccaaagctc cgaanggtgg caaataacnt 420

tccaacgaac caacgccaac aagtttaacc ggctggctgg caagcctttt gaaaacaaaa 480

aacccaacta aattgacaat taacaaagct aactcccttg ggttccgcca agtcaacctc 540

aattttggg 549

<210> 2943
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-F10

<400> 2943

cagtaccggt nacaaattcc cgggncgacc cacgcgtccn atcgattttc acggcgagaa 60

atgttgtcgg cgcttggctt tgctttactc agcatcttcg cgatcctctt gtcgttatca 120

accttgtcta atggattact tcaacctcgt aggatttctc atggcttgac ggaaagtagc 180

aagtacttga cgagggatga gctctggttc aatcaaaccc tagatcatta ctctccttct 240

gatcatcgcg aattcaaaca gcgatactat gaatatctag accatttacg agttcctgat 300

ggacctatct ttatgatgat ctgtggcgaa ggaccttgca atggaatccc caatgactat 360

ataactgtgt tagcaaagaa gtttgatgca ngcattgttt cacttgagca tcgttattac 420

ggaaagagct caacgtttaa gtcattagcc actgagaatc tcaagtat 468

<210> 2944
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-F3

<400> 2944

anncacgcgt ccgaaaagaa gagggaattt aaaaggggga acaaattccc tccaaatgat 60

tgggccataa accagagaca aggctcaagc caactctgct tctatctatc tctcactcta 120

ctcataaaaa tctccatata cgcttcttct tcgttctctg atttgctggt gcgcttctcc 180

gtcatcgttc gccgatcata gtcgatcccg ccgcttccag atgcttattc cttggcctga 240

tgggacacaa gtgatatcag tgttaccgtt gatagagtgg tgttttggtt ctgttttggt 300

gtgagcgtat gcctggaaat aagtncaact gcaattcctc tcatatccca ntctctcgaa 360

cagaaagcct ccttgagaaa tagaagaacc ttanaagaag aaagaaggaa gaagcaaacc 420

gaacctccgt aaatccctaa tggacnttgg ctgggcaant ttccgaaaaa ctcctgaana 480

attgacttt 489

<210> 2945
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-F4

<400> 2945

ctaccggtca ccaaaatccc gggtcccccc aacgccttcn aanaaagcgt tttactcggg 60

cagatggaaa atgttttgaa cgtgacacat ggagagaaat aaaggaagac attgaacgtg 120

atangtctga gaatgccagc tcctctgatg cagttgttat atctcaagaa atcacagaaa 180

agaagcctgt agaaataaga gaggttgaat cgaatgcacc tcgcgccagt gattgtaccg 240

agaaagtaga tgtcaacaag gaacgtcttc ttaaagtccc catagatagg gctctatatc 300

agaaggcact aacatcactt gttgattcca aaattccaca agaagaagtc ttggagatca 360

atgaaactaa taagctagat gaggaagcac tagctagtgc tgaatttgtg tcctttgtgg 420

actgtactcc tgaaanggtc aaatctatct ttgagaaagg caaattggtg aanggttgct 480

ggctaaggat ttcctttgac ataaa 505

<210> 2946
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-F5

<400> 2946

cgacgagtcg ctaatcaaat aaacctaaac cctagatcgt gatcggcaac ggcacctcct 60

cgtcggcgat agcttctctt ccactaaaag aaaatcctct tcggtgagaa tggcagagca 120

tttagcttca atctttggta ctgaaaagga tanagtgaat tgtccgtttt actttaagat 180

tggtgcttgt cgtcacggtg accggtgctc acggcttcat aaccgtcnca ccatctcgcc 240

gacgcttctc ctctcgaaca tgtaccagag acctggacat ggataactcc aagtggtggg 300

attctcaagg ggaaaagccg tttagacccg anttangatt caaagaacaa cttttgangg 360

atttcnaacn aacnataatt tttccnaaga aactnaaaca aagnttttgg ngnaanttgg 420

naaaagttcc ccaatggttt tggtgaaaaa nccnttggcn ggattaattt ngaattgggg 480

aaatggggta angttccgg 499

<210> 2947
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-018-Q1-E1-G10

<400> 2947

gtaccggtna ccaaattccc gggncgaccc acgcgtccan ccacgcgtcc gcccacgcgt 60

ccgcccacgc gtccgagcaa tctgggcatg acaaagtcca tgaatttctt tcagaacatc 120

attaaacctt tcaaacgcag ctccaatcga ggtaagatcc gtttgatttg ttgattctta 180

gtgtaagatt aggtttttgt gaaatttgac taacttttc ttcgttgact taaaggtctt 240

gaagatgata ttgagcgaat tgctgctatg gagcaaaaag ttttcccatt tcaagtttta 300

gtttccgcta ccaaagattt tcacccgacc cataaactcg gtgaaggtgg tttcggtccc 360

gtcntcaaga ttacctgacg ggagagacat ancagtgaag aagctatctc aagtttcaaa 420

ggnaaagnaa aaacnagttt gtgaacgaag gtaagttgtt ggctaaaat 469

<210> 2948
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-G2

<400> 2948

cgnggtctac cggtcacaca tcccgggncc ccccacgcgt cnagantgct ttcacggcgg 60

ttactgtttc tatccttttt agatcagctc ttgcggagcc aaagtcgatt ccttcaacgt 120

ctatgtaccc taccttggac aagggtgatc gcgttatggc ggagaaggtc tcatactttt 180

tcaggaagcc agaggtttca gatatagtaa tcttcaaggc tcctccaatt ttgctggaat 240

atccggaata tggctacagt tccaatgatg tattcataaa aaggatagtg gcaagtgaag 300

gtgactgggt tgaagttcgt gatgggaagc tctttgtgaa tgacattgtg caagaagaag 360

attttgtctt agaaccaatg tcatatgaaa tggaactaat gtttgtcccc aaaggttatg 420

tctttgtcct tggtgataac cgcaacaaaa agcnttgact cccataactg ggggtccact 480

ttcaataaag aacatccntt ggaaatt 507

<210> 2949
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-G3

<400> 2949

acggnatctg aaatcccgcc gttgtcgtca tcaaccgccg cagcggagga atctgganag 60

aagaccagca agaangcggc taagaaggaa gctgccaagc tanagaagtt aagacgtcgt 120

caagaacaag aggaagcaac gcgtcnaaca gcttcgatct ctctggaaga gaatgacgag 180

ttttccaata actacggcna cgtgactctt accgagttgc aatcgtcggc ggatccgaaa 240

gccgggaagt ggatanaggc tgttgaggga aangagtgga ccgatgtnag ccatttggt 300

ggaaagagat gttggaatca aaagttctga tnaaaaggcc gagttcacac gaatcgtcca 360

acgtctaaca aaanttgggg gtttgtngtc cntgaaggga aaaccggatt aaactgttca 420

attgcgttgg ttaaccaatc cagngaaaga ccaaaagtta ggtngccaac aatgggttaa 480

attacctc 488

<210> 2950
<211> 523
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-G4

<400> 2950

anatccctac ggggtctacg gtcacgnatc ccgggnccca ccaagccttc nanaaanncg 60

tccgatttac acggcgtctc gggccatcac gagcctaatt ccgaacctcc aattccgaca 120

ggttcgtcga gtccgaagct gaagattagt cccaaattga atcggtggtc tangggccga 180

gctttaagat ctggtgttaa gcttgaccgt ccaattcccc gttccgataa ctcacctcgc 240

cgtcaagtaa cggaagccca accgaccgat gaggctgata agaagacgac ggcgatcgac 300

gtggaggtaa cggcgggaaa gtctatatat ttggtttccg acggaactgg gtggacggca 360

gagcattccg ttaacgccgc tttgggacaa ttcgaaagat ttttccgttg aatcgtggct 420

cctctggtga atacccatct cntctcctgg ggtgaaggat taagganaag gctaancgag 480

aattattaag caaagcggna aaaggaaagg ggaaatgtnt ttc 523

<210> 2951
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-E5

<400> 2951

natggtgcta aggtggtgta tcagtttgga aggacgagga gagggagata tagtgcaggc 60

actgcggaat ctagcaagtt ctataattca agtatgtatt gggatgagtt catttggggt 120

ggtgcttgga tgtattatgc taccggaaat gtaacgtatc tcaatctaat cacccaacct 180

actatggcca agcatgctgg tgccttctgg ggtggccctt actatggtgt atttagctgg 240

gacaacaagc ttgctggtgc tcagttgctg ttgagccggt tgaaggttgt tcctgaatcc 300

tggatatcca atatgaaaga aaattctaaa ggaccttcca acaatcaaga ncaagcaata 360

antccatgtt gctcaataac tttgcccaaa ttttcaaaca aaattttaac aagaaaccaa 420

atgggagggt ttaataanaa ntttgaatcc attgganctc caanaagccg cctgcaataa 480

ttccggtaaa atgcaancct tt 502

<210> 2952
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-D3

<400> 2952

aattcctgcg tanctaccgg tcatcaatcc ggggcnncca cgcgttcnaa aaaacacacc 60

agaacagaac tcagccatgg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnncg ctaatctcac cggcgatttc acaacaggct tgcaaatcac agaacttgaa 180

ctccgccggt ccgttcgata gttgcgaaga ccttccggta ctcaattcct acctccatta 240

cacctacaat tcctcaaatt catctctctc cgtcgctttc gtcgccactc catctcaagc 300

caacggtggc tgggtcgctt ggggctatta aacctacggg ggactaaaga tgggtggttc 360

caaagcctcc cccgcttaca aattcgggcg gtggtgccgg tccggtcgtg aagacgttca 420

acattagcan ctacaggaan tctcgtccaa agnaaacttg ctttgatttt ggaaccnacg 480

cgccgat 487

<210> 2953
<211> 530
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-D4

<400> 2953

aattctctgc gnggtctacg gtcanacatn ccggggnccc ccaacgcgtc canaaaccgc 60

agacanagaa acaaattcgc agacaatagt cgaaaatggc tgaaatctcg gcgannnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncgtagctc ccanaatggt agcttaaaat 180

gtcagaatgt agctgttcca aaaactactt cccagttcca agagttatct ctgaaacgaa 240

gccagcttgt tggcaatgcc gttgttaccg gtcatgttac cggatcccgc agctgcaaga 300

atcaagctat tcgagctgtt ctatccggtg atggaaccgc cttgactact gattcaaagg 360

aagctgggac ttcgtgggaa actgaaaaag ggtcgttcta ancttacaat tggaaggctt 420

agacaactct gtcaattgng cccaatgggc ttaaagggag aaactnatng gnttgtgaaa 480

nttggtgttg cttcaactgg ccngatgntt tggtcaaggg caataaaaan 530

<210> 2954
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-D5

<400> 2954

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cgagctgagg aacattcaaa tcaattccac tctatcatcg ccatggccat ctggcttggc 120

gccattcact tcaacgtcgc tcttgttctc tgttctctca ttttccttcc tccttctcta 180

tctctcatgg tcttgggctt gctctctctg tttatcttta tcccaatcga tcatcgtagc 240

anatatggtc gtaagctcgc taggtacata tgcaagcacg cgtgtaatta tttccccgtc 300

tctctgttac gtcnaggatt acgaaagctt tcaagcctaa tcgtgcctaa gtctttggnt 360

atgaacaana ttccggtggc taccgaattg gaatttgttg gcnctttgtg attcncacan 420

gggttaangc ccaattccta acattaaagt ttcttgcaa 459

<210> 2955
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-D7

<400> 2955

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tcttgtaacc gcntgaaacc accaanaaac ctatagtaag agtttccgca natgtgaatt 120

aaagacagct catcactctg tcaaacttct anagtattaa gttaacgaag cangtacagc 180

caaactaaaa taacgcggag ttatgggaat catcgacggt tctttgcttc ggcggttgat 240

ttgtctctgt ctctggtgtc ttctcggtgg aggagtgacn gtggttacgg cnnangatga 300

taaagaantg gacataaaca cttaatcaaa accccgactt gggctggttg ctgcngttgt 360

acttcctcan cgtggttccg gtcctccttg aaaactctna caaaagttgg aaaggtcnaa 420

gggatcggac aaganactct ctg 443

<210> 2956
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-D8

<400> 2956

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ttgttcaacc cggaaacgcc aggcattcgg gtcgggaaaa gatccatctc actccatccg 120

atcttagcct tctctatctt aattaccctc aaagaagtct cctcttcccc aaaccctacc 180

cggaaacccg gttcatctct cggttaaagt cctctctctc tacgtctcta gagatctact 240

tccccttagc tggtcgtctt gtcaaagtca acaaccatga agacaatacg gtgtcgtttt 300

acatcgactg tgacgacggc cgtggtgtca aatttgtcca tgctatagcc gaatctgtct 360

cggtaagcga tatccttcaa cctcaaggct ctgttcctga ctttttcaag gctttccttc 420

ccaaggaacg gtgttaagaa gcatcgacgg gtcctcaaaa nc 462

<210> 2957
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-D9

<400> 2957

ncttctcgaa atcgtctcct gtttcntctg ctttcatgga tgcttcaaat cccaattctt 60

ctagaaaatc taatgtctct tccttcgctc agtccantcg aagcggtggt agaggaggag 120

gatatgagag agataacgat cgacggagac ctcagggtcg tggcgacggt ggaagcggaa 180

aggatagaat cgatgcactt ggacgactct tgacgagaat attgcgacat atggctactg 240

agctgagant gaacatgaga agtgatggnt ttgttaaagt tgaaagaatt acttaacctg 300

aatttgaaaa cttctgcaaa tatcaattta agtcacacac gattgatgaa anttagagaa 360

ggctgtgaaa aaggacaata agcaacggtt tagtccncat ccattaagaa atggganaac 420

tccttgattc gcgcca 436

<210> 2958
<211> 512
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-E1

<400> 2958

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

aaaatccgac agtaattttg accgttgttt tctccaacgt ctctctctct ctctactgtg 180

tatccctcac gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt 300

ccttttgaca ttttcacaac aacaaatcca aagatttaca acaattctca nccggggttc 360

tgttaattct gagtacaatc tcaacccttа aataanaaaa caaagcaaaa atctcctcaa 420

aggggtttta aaggactaaa agaagcnttg tcctggtana ataaagcaaa agaatccttc 480

ctaatggncc ttttttcccaa gtttaanggc ga 512

<210> 2959
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-E10

<400> 2959

ggtaccggta accaaattcc cgggncgacc cacgcgtcca gtcatcggtc gcctcatcgg 60

aatggtggtg gtggtagtgg ttgtcctagc cgttctcata ctaggcatgc ttcttatgac 120

acgattgact taccaaatga ggagctgaga aagaggagtg agttgcagcc aaccaagatt 180

gttgttctga aacctaacct cggggagcca cgttatgctg ctagaacttt tgcatcgcca 240

agctcttctt ccgatgagtt cagagcagat cgtaggcttc catgcaccac cactcatggc 300

aggcagaaaa gtaatgaaga tgtccgcctg tcaagacaga attcaagaga ttgtggagaa 360

atggccaaaa taatgtctaa gcaaaggaan gtgagctgtg gcaatggtcg tgccatgagt 420

tttgagactt cangatttaa angatatgca ngggatgaaa gctcatcaag 470

<210> 2960
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-E11

<400> 2960

ggtaccggtn acaaattccc gggncgaccc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnaggaa caacattgct acaatgtgga agaggggatc acattttcct 360

tactcatgtt ggtattcctc aagaanctcc gaaataacat aacttcctgg tcaatcaatt 420

tcaggttaat aaagctccgg ctccgaagtt aatcaaaggc gtccagaaat gaagaaa 477

<210> 2961
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-E12

<400> 2961

nctctgtttt gctttccgac antcaaaccc taggggttgc taaagggaaa ggagagagat 60

gggtggtgaa gaggaagttg tttctgttga gctaccagca ccttcttcat ggaanaaatt 120

gttttacccc aacanagtgg gttcagtgaa gaaaacagag gttgtgtttg tggctccaac 180

nggtgaggag attagtaaca naaatcanct ggnncagtat ctcaaatcgc accctgnaaa 240

ccccgcgatc gcagagtttg attggacgac tagtgggaca cctatgagat ctgcaagaat 300

cagtgagaag actaaggcta cgccgtcacc aagataaaga gccaccaaga aagcgaggta 360

naaacaaatc nccattgtca aagaaaggat gcagaaggtg agaaatcana gggaaganga 420

caaggaaact ctca 434

<210> 2962
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-E3

<400> 2962

ttctgccgna cctaccggtc acaaatccgg gtcnnccaag cgtccgggaa ntccatttng 60

caaaaacgcg atgaccacag taaactgagg gatatatgga agagatggct cagattacag 120

gaagtcctga tgccgctatg aaagctctca cgcaagtaat cttgcgatta agagctaact 180

ctttcgacat ggatcatgga cttgtcttgc taccaacatc ttttccatat atccctcaag 240

tgactgaaag ttcgagcaaa tccaaatacg cannacgcga tgaccacagt aaactgaatt 300

cgaattctaa ganaagaaac catgtttctt aaatcaanaa aaacaatcct tagagaagga 360

anattganaa tgttcagaac tcaatgttga tgcaaatttt atacaatagt aagttacntg 420

ttaggaaaaa ataatttgcc naatgcaatt cacaataaga aatgtaacat gagatggggt 480

gtttcaacct tggnccttt ttccttttac gttgggaa 518

<210> 2963
<211> 508
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-E4

<400> 2963

cgtaccggtc caaaaattcc cggggcccaa ccaacgccgt ccagtttatt gagaaatatg 60

gtactcatgt tgttgttgga gtgactatgg gaggtaaaga tgtcattcat gtgaaacaga 120

tgcgtaaatc gaatcatgag cctgaggaaa ttcagaaaat gttgaagcat tggggtgatg 180

aaagattttg tgttgatcct gttgaaagta aatctcctgc ttctgtttat tcagggaagc 240

caaaggagga gaatcttcta caatggggac ttcaaccgtt tggtacctcg gttagctctg 300

ctgttgtcat gcataccaag aacgaggaga ttatgagggt ttgtatcaga agaggangtg 360

ttgatctggg gcaaaagtca tgaacgatgg ctctcaacag tatcacaaag cacccaaacg 420

tttatatcna ngtgtttggt tccnataact tcactcntga accggtctcc aagaacagga 480

ttcctaancc atncattgaa cttaacct 508

<210> 2964
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-018-Q1-E1-D2

<400> 2964

ggtnagttaa aaaaaaaaga naancntttt ttggttctnc tncttcntct tcttcggaca 60

aaaaggaaga tggtgttgac tgattcttaa gatgggtttg tgttaagttt gtgagtatag 120

ttgaaagttt cagttcaatt tcaatggagc ctccaatang atttcgagct tctttattcc 180

aattcttact cttccttcct tatttcattg gattgctatt tctgggtttc atcaaaggta 240

ttgttttgtg cccactcgta tgcctcgttg tgactatagg caactccgcg gtcatactga 300

gtcttctacc agtccacatc gtttggactt tctattcaat cgtgaagtgc caaacaaagt 360

aggaccaatc cttgaaagat cttccatgcc taagtccttc ctgctggcan caatcctctg 420

gnctaatggt tggaatttaa ggaantgttt tgggaaa 457

<210> 2965
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-A9

<400> 2965

ngccgcccgt accggtccaa aaaatcccgg gtccanccaa gcctncgaaa anaanggaaa 60

agaannncaaa nnggtcctgg aaatcngtgt gaaagctgct gttggtgctc ctgatcatct 120

cggcgactgt ccgttcagcc aacgggctct tctcacactc gaggagaaga gtcttaccta 180

caaaatccat ctgattaacc tctctgacaa accccagtgg ttcttggaca ttagtcctca 240

agggaaagta ccagtgctta agatcgacga caagtgggtg aactgattcc gacgtcatcg 300

ttggtatact cgaggagaat atcctgattc aacactcaag actcctgctg aanttgcctc 360

tgttgggttc aacanttttg ggtacttttg ggacaatcct tgaanaacca aagactccca 420

atgaccggtt tgaacattnc cttgcctgt 449

<210> 2966
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-B10

<400> 2966

atcccggggc ccaccaagcn tncgaannnn antcnaaana attncgtnaa ttacnaantt 60

gcaaanagga aaaaaaaatg ggncaagctt tgggttgtat tcaagttgat tcagtcgaat 120

ggtagcaaat caaagagnct tttggggaaa ttcgacgaag ttcttgagcc ggggttgtca 180

ctgtttgcca tggtgtttgg gaagtcaagt cgctggtcac ctttctttac gtgttcaaca 240

gctcgatgtt cgctgcgaga caaagactaa ggataatgtg tttgtcacgg ttgttgcttc 300

cattcaatac cgtgccttan cggagagtgc tcaagatgct ttttacaagc tcaacaacac 360

gaaggaatcc agattcaaag ccttangtcc tttggatggt gattccgaag caaagtgttc 420

cctaaactgg gttctaaaac ccaacctttt gagcaaaang aatgacaatt gcaaa 475

<210> 2967
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-B11

<400> 2967

gcctacggtc aanattccgg gnccccccacg cgtccagnag cccgccgaag cttggccttc 60

atactttgta tgaggggtag gggagcgttc ccgtaacagt gaagcgcccg tggcaaacgt 120

tggcgtggag tggcgggaag tgaggatgcc ggaatgagta cgcgcaaatc caagtgaaaa 180

ccttggacac cgtaaaccca agggttcctg cgccatggca atcagcgcag ggtgaggcgg 240

agcctaaggt gaggccccag aggcgtagcc gatggtaaac gggttgacat tcccgtcccg 300

tcttgcagtg tcnaagcatt caaggacacc ggaacgaagg ancaaccggc tgtgttgatt 360

ggccgttcta aggggttaag catcncccca aggcaaccna aacctcatgg anaaaatgcc 420

gggccaaccc aaggtcaatt gttctggaat ccacgggcaa aaaaaactga a 471

<210> 2968
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-B2

<400> 2968

aaaaatcctc ggatctgttg cattctctcc aaagcttgaa tcagaagaaa gcttttgaag 60

atcagcctaa aagtgatctc tcataactgc ttaaaagatt gttgaaactc gaagatgtct 120

ttggccgaga taaacaagaa tgaagtcgac attgttattg gggctcttaa tgctgacctt 180

acacagtttt tgaccagctg gaggcctttc ttctccggat tccatctgat tgttgtcaaa 240

gatcctgagc tcaaggagga actcaacata ccagaaggct ttgacgtaga tgtctactct 300

aaagactgac atggaaaang gttgtgggcg catccaaatc caacaagttc ccctgggcta 360

attcctgcag ataattccgg ttaaccccgt aacctaaaaa agaanttcaa ttgtcctcna 420

atttgatgaa tgaattgtgt tccctggcta aaana 455

<210> 2969
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-B4

<400> 2969

ccgntcccac ggtcacaaat ccgggncgac ccacgcgtcc attactctct ctctgatcgt 60

cgtctttttc ttttgattct gctttttttcc gctaggtttc tgagatcttc cattcgtctc 120

gaattaagtt gctacgatga aaacagcana ggggaaagat aaagttaaga ccacaaagga 180

agccttgaag ccagttgatg acagaaaggt gggaaagagg aaggcaccgg ctgagaagcc 240

tactaaacga gagactcgta aagagaagaa ggctaaaaag gacccaaaca aaccaaanag 300

agctcctagt gccttctttg tctttctaaa agattttagg gtcacgttca agaaaagaaa 360

atccaaatgt naangccgtc tctgctgttg ggaaagctgg agggcanaaa tgggaantca 420

atgtctcaag cctgaaaaag ctccatatga agagaaaagc tgcaaaaagg aaagctgaat 480

atganaaag 489

<210> 2970
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-B7

<400> 2970

gccgntcggt accgaacaca nattcgcggg tcgacccacg cgtccnaaca aaaagaaaac 60

acctaaatcg atctgtgaag tcaaaacact ttccagtttc agattctgat tatggcaaca 120

ccggagactc gtggcgttga ttccgattta gagacagcgg agaagataat actccggtgg 180

gattcaacaa catctgaaga agctaaagag aatctgattt tccaaagcgg tggtgatcga 240

gaagaagtag atcggtactt gaaagctgta gatgaagttc aaagacacat ctcttcaatc 300

tcaatctccg atgaagtcaa agcaacgatt caaatcgcca tggctagact cgaggacgag 360

ctaagaaata tcttaatctc tcagacnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncgta cggagcttga agatgacact 480

tgcgatga 488

<210> 2971
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-B8

<400> 2971

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actaaaatgg gttcaacggn agagacacaa ttaactccgg tgcaagtcac cgacgacgaa 120

nctgccctct tcgccatgca actagccagt gcttccgttc ttccgatggc tttaaaatcc 180

gccttagagc ttgaccttct tgagattatg gccaagaatg gntctcccat gtctcctacc 240

ganatcnctt ctaaacttcc gaccaaaaat cctgaagctc cggtcatgct cgaccgtatc 300

ctccgtcttc ttacgtctac tccgtcttaa cctgcncanc cgtanacttc cggtgatggc 360

gttgaacgga ttacnggctt ggtccngttg caagtattgc caatnacgaa gatggggttc 420

aatgctgcnc t 431

<210> 2972
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-C1

<400> 2972

aagaaaaggg aaaattacca gacaagagtn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngaaaatct agaagaagag aaagctacaa 120

aaatctcaac atcgaggtaa gagttttggc tacagagcaa ccatgctaac ttgcgccttc 180

tcccaaaatc ttatccacta atctcggtaa ggaaagtgat gttggcaaaa tggtgaagaa 240

aggaagttgg ttttctgcta tcaaaagggt ttttactcca cattccnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt ttgggaagct 360

aangnatggc gagaccaatt caattcttcc catcttcaga gagcctanta gtatcgaaaa 420

gatnttgggc gaagctgag 439

<210> 2973
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-C12

<400> 2973

ttntagccgg cccgtaccgg tcaaaaatnc cggggcanna aaaggaaana aaaannnnan 60

nnanacaann cnaaanggng atgattacnc gcaanaccgc cacgcgcctc cctctcctcc 120

tccaatctca acgcgccgtc gccgctgcct cggtctctca cntccacaca tcccttcccg 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnt aaagcggccg aatttgtgat ctccaaggtc gatgatctca 300

tgaactgggc tcgtaccgga tcgatctggc ctatgacctt tggtctcgct tgctgcgccg 360

tcgaaatgat gcataccggt gctgctcgct acgatntcga tngattcggt atcatcttca 420

ggcctagtcc tcgccagtct gattgtatga ttgtcgccgg taccttaaca ataagatggc 480

<210> 2974
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-C2

<400> 2974

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gcagaaaatc gttgttgtgg acagcgagat gccaagcaga ggaggatcag aaatgaggag 120

aattgtgagt tttgttggcg gtattgatct ttgtgatgga agatacgaca ctccgttcca 180

ctccttgttc aagacattgg acacagtcca ccatgatgac ttccatcaac ctaacttcac 240

tggtgctgct atcactaaaa gtggtccaaa gggaancctt ggcatgacan tcactccccg 300

ttcttgaaag gnccaattgc cttgggaagt ccagtncaaa cttcnaacca aanatgggnc 360

caanccaggg tggtaaaaaa cattcccggg ttaaattnan aaaattntta agggaaattt 420

attaacaacc ccttcnccgg ttaagnttcc aaaaagggcc cccaattttt ggaaagttcc 480

aattnttaag gcccatngat ngaggacccc cccctgg 517

<210> 2975
<211> 493
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-C4

<400> 2975

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aaaagcaaag gatacagatt gcacgtgctc tctaccaaga tgctgatatc tatctgttcg 120

atgatccttt tagcgctgtg gatgcacaca cagggtcaca tctctttaag gaagttctac 180

tggggctttt gtgttccaaa tcggttatat atgttactca tcaagttgag ttcctaactg 240

ctgctgatcn taaaccggnc ntgaaagatg agaatcngcc nagcnggnaa attccaatga 300

nanccncaat ccngganctg attccangga ccttaaaggt gcacatcagg gaggctcttn 360

caatatttga cctgtagaat gcnaatttcn gtttctgaaa aaatcaacnt ttaggccaaa 420

naaaatgtta attgtnaaaa anatcctaan cccctgtttg attaaaaaac ctaaaaaagt 480

ccagggtttt gaa 493

<210> 2976
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-C5

<400> 2976

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taagatttct gttaaagaaa atacaaaatg gaccccaaca gcaaaaacaa agacaacata 120

gtattaagag attagtcgac atagcaaaag tacaacaana acaanaanac accangaaaa 180

gaacacatcc ccttctctta cccagaatcc tcctcttggc ctcagttcac tcattagatt 240

caccancaaa aagaagagta aagaccgaaa caagccggat tcaacaacta tacaatgttg 300

caggtgttcg ttttccttca gcttcttttg ttacctaaac ctttttтcgt tttaagagat 360

gttcgatnac aagaacacgc agcggttcnt ggtccttttc ttcctcctct gtntccgtgg 420

gctgaaanca ccacttttat g 441

<210> 2977
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-C9

<400> 2977

anatttttтc cgcggcctac ggtccaaaaa tcccggggcc caccaagcnt ncgnaagggt 60

ttngtncctc cttcctnaac gggnccnnaa nctagtgggg ganctaacnc atcaaccttt 120

gcacaaggag aagatgatcc ttggtttgct gcactgggga aggagggtgc attcacatta 180

cttggaatga ccgaggagca atctctttgg agggtctaga tctaaatgtt gtggagaatg 240

tggaagaagc tgactttgtt ttagcgcacg gcactgaagc cctangactt ccttcaggca 300

ntgtatctcc aaggactatt gatgagctag agaagatttt ggagaaatct gcagctcnan 360

gacttcccat gatcgtagct aatccaaatt acgttgactg ttgaaagcaa atgtttttca 420

natcatgcca agtacactan cttccaaagt ntgaaaaact gggaaggaga aatgaatcca 480

tnggaaaacc t 491

<210> 2978
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-A7

<400> 2978

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accaggtggt ccaccaatgg gtcagcaact cttctatggt caagggcctc ctgctatgat 120

tcctcagcct ggattcggat atcaacaaca gcttgtaccg ggtatgagac ctggtgggtc 180

tccaatgcca aacttcttca tgcctatgat nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt cttccacaac cacaacaacc 300

ttctcctatg atgcagcagc agatgcatcc aagaggtcga atgtatcggt atcctcagcg 360

agatgtaaac acaatgcctg gtcctactca aaacatgctt tctgttccat atgacgtctc 420

aagtggtggt ggtgtgcatc atcgtgactc gcctacntct caaacctgtt cctattgtan 480

ctttggctac acggcttggc 500

<210> 2979
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-H5

<400> 2979

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gtaccggtat ggtgaaggct ggatttgcag gagatgatgc tcccagggct gtttttccca 120

gtgttgttgg taggccaaga catcatggtg tcatggttgg gatgaaccat aaggatgcat 180

atgttggtga tgaagcacaa tccaagagag gtattcttac cttgaagtat cctattgagc 240

atggtgttgt tagcaactgg gatgatatgg aaaagatctg gcatcacact ttctacaatg 300

agcttcgtat tgctcctgaa nagcaccctg ttcttcttac cgaggctcct cttaacccaa 360

aggccaacag agagaagatg actcanatca tgtttgagac ctttaactct cccgctatgt 420

atgtcgccat ccaagctgtt ctctccttgt acgccagtgg tcgtacaacc cggta 475

<210> 2980
<211> 417
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-016-Q1-E1-H7

<400> 2980

catcttgttg cttcggagcg agcgagaatt atcgtcggag aatttatcgt ctctctctct 60

gaaaattctg atcggtgaag aatcgtcgga tcgaaagttc gtttatcttc tcgtttacgt 120

ttccgtgatt taaatccttt ggggtttttt tttcttgatt tcagaagaag aagagaagaa 180

acaatccgta atctagaccc ttgaattgac ctaataatag gatacatatg atgactatga 240

agcagtcttt gagtggcagg gttcttaggg gggtctttgg tatctatctg taggagggct 300

tttaggtgct gtttcgggag attaaagcca gattcaaggt gagtctgaga gcttggttct 360

tgtatcttct tgtttaccaa tgggaatcta ggtcactgag aaaccatcct tcttgtt 417

<210> 2981
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-H8

<400> 2981

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aaaaaaactt gcacatcttc tcagatcttc aagtttctcc tctggtttct catcatgacc 120

gttgatatta tgcgtttacc taagatggaa gatcaaacgg ctatacaaga agctgcatca 180

caaggcttaa aaagcatgga acacttgatt cgtgtcctct ctaaccgtcc cgaagaacgt 240

aacgttgatt gctctgagat cactgatttc acagtttcta agttcaagaa agttatctct 300

cttcttaacc gttccggtca cgcccggttt agacgtggtc cggttcattc ccctccttcc 360

tcctccgttc ctccaccggg tgaaagtgac aactccggct cccactcaga tntctgctcc 420

aagcaccggt tagcttcgtt caagcaaatc aacaaagcgt gacgttagat 470

<210> 2982
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-016-Q1-E1-H9

<400> 2982

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ctccgttaat gttggctgcg atgtatggaa gaatctcttg tgtgaagaag ctagctgaag 120

ttggngctaa tattttgatg tttgattcng tgaatcgaan aacatgtttg cattacgctg 180

cntantatgg acatgcnaan tgngttcaat ctattctctc tgctgcncaa tcaagtcctg 240

ttgcngtcca ntggggatat gcgagatttg tgaacataan agatgataaa ggagcgactc 300

cgttgcattt agctggcncg acagagacga cctgaatgtg tgaatgtttt gttggatact 360

ggttctcntg tttgtgcatc aactatgtaa angggtctca aggaaac 407

<210> 2983
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-A1

<400> 2983

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ncagtccccg atttccgctt 120

tatccgatcg gccgccgccg agattctaga taaacctatg gcaatggagg ttacgcagtt 180

gctcattaat gctcagtcga ttgatggaac tgtacgtaag cacgcggaag aaagtcttaa 240

gcagtttcan gagcaaaacc ttgcgggttt cntgttgtcg cttgctggag aacttgcnaa 300

tgatgagaan ccagtagata gcaagaaatt aactgggtta atccctaaaa atgctccttg 360

aagctaaagg aacaacacan gaaatatgaa ccntggtcaa aaatnggttn gctccaagac 420

atgtcaacaa aagtccncaa anttanannc ttttcctggt ttgaanaaaa ctgtccnggg 480

aacctgtggc cctg 494

<210> 2984
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-017-Q1-E1-A10

<400> 2984

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ataaaaaacn aanaanaana agaanacaat acagttcaca acgccatggg gtttaggcat 120

cttaagcttc tccgaaacaa ttcgaccaag cttcacgtct tcttcnatct caaacctcca 180

atttcttcct ccgcacaatc gtctcaaaac cagagctcca atctcctgaa tccgctgctg 240

tctctgagcc tgagccgccg acacagattc tccctcctag aaaccctgta ggtggagcac 300

gcgtccactt ctcgaatcct gaagatgcga tcgaggtctt tgtcgatggt tacgcggtca 360

aagtccctaa angattcact gntcctcaag cttgttaagg tccctggaat tgataanccg 420

aaggtttggt aacaatcctc gtttaaccna ntggctggaa atttgcaagg atgttgtcct 480

tgttgaaggt tgaa 494

<210> 2985
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-A11

<400> 2985

cggtttacca cagttgagtt ttgggttact actagtattg agcccaactc tgtgtcctgg 60

agcaagtttt tgacagtgga tatgagacca ttggcactca ctggtgttcg gtttgacaat 120

gatatgggtg ccaccttctt cattgacgag gatgagaaag tcgctgtggg ttttcgatct 180

agacggatac ctaagcaccg agagcgctcg ttaccacacc gcttttatca gtggaaagga 240

tggattcntt aaacctgtga ctctaggagt agctcccaat gtcngggaac cttgtcccag 300

aaccgggcat attccgacta catatcgtcc cccgccttgt cctgctcgtc tacttacctt 360

ccgaagttta ntgcaagtca accaacagcg caaaanggaa gaaagacatg tttantttc 420

c 421

<210> 2986
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-A12

<400> 2986

cgtaacggtc caaaaattcc cggggccnac caagcctncg gnaaaaaatt accnacngan 60

gttncaaana tgttaaatag tttcacacca tcaagagatt ttgacgggtt agtagggatg 120

agagctcata tggatatgct ggaacaattg ttgcgcctag atttggatga agtaaggatg 180

atcgggattt ggggaccgcc tgggattggt aagacaacta tcgccagatt tctgtttaat 240

caagtctccg acagattcca acttagtgcc atcattgtga atatcagagg aatctatcca 300

agaccttgtt tcgatgagta cagtgcacaa ttgcaactac aaaaccaaat gttgtcccag 360

atgatnaatc ataaagatat catgaattcc caattaagaa gtggctcaaa gaacngtttg 420

agagacaaga aagtgtttcc tggtccccat gaaattgatn aaattaagac aactaa 476

<210> 2987
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-A2

<400> 2987

nngcaaagaa ttggcagcga caataacaat gtggaacaac ggcctcagat tatatatgag 60

gacgatgaag gtgataaggt tttgattaca tcggatagcg atttggttgg tgctgttact 120

cttgctaggt ctacaggaca aaaggttttg aggctgcatc tggacttcac tgagtcaaca 180

aggagcttga gctcagaaac cacccaactc aagaaaggtg attctcgaga cagaggaagc 240

ggatgggttt catggcgtgg tggtgtggtg gttacaagag ctgttgtccc aacaaagcat 300

anccataagt ttgttaantt aancgttcaa anaactgatt tttgctgaaa caaactgttt 360

gggaatgcaa naacaaaaac tccttttccc ctnaattttt tgggnaattt tcataaaant 420

ttgccccttg tccttttggg gtcaaatgtt t 451

<210> 2988
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-A3

<400> 2988

ggatgatgtc gataaacttt ttgaagtttt tgcttcgggc aagcccgttc aattcacggc 60

tgagtctctt gcaccggagt ttaacaatgc tattccctct agcctaacaa gagagagccc 120

ttatctgacc catccaatct tcaacatgta ccacacggag catgagttgc ttaggtacat 180

ccacaagtta caaaataaag atctatcatt gtgccacagc atgattccac ttggatcttg 240

tacgatgaaa ttgaatgcca ccactgaaat gatgccagtc acatggccaa gtttcaccaa 300

catgcaccct tttgctcctg ttgaacaagc ccaaggttat caagaaatgt ttacgaattt 360

gggtgagctc ctaagtacga tcactggatt cgactccttc tcaatgcaac ctaaatgccg 420

gtgctgctgg gcnagtacgc ccggg 445

<210> 2989
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-A4

<400> 2989

gagaacaact tcttcaggtt ctataaagag attccgaaga agaatctttt ccagaaacag 60

tgtaagtctt atcttcttct ttaggcttta agatgactgc tgaagttaag gttgaggaga 120

aacaggtgga gtcagaggtt gttattgctc ctgctgttgt tcctgaggag actactgtta 180

aggctgttgt ggaagagact aaggttgaag aagatgagag caagcctgag ggtgtggaga 240

agagtgcttc cttcaaagaa gagagtgatt tctttgctga ttttgaaaag aatcctgaga 300

aaaaaggcac tggagttgat ctcaagtcct aaagctttga aggaanctat tggtttgaca 360

acaactcctc cttannnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnnnnnn nnnnnnngt tgttgaaaac cctgaaagcc tgaaggtttg agaaagaaag 480

aaagg 485

<210> 2990
<211> 479

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-017-Q1-E1-A5

<400> 2990

ngtaccgaac acaaattcgc gggtcgaccc acgcgtccat ttcttgttcc tttgtgtcgc 60

cggagatata tatcttcgac atcggtgaag aatggggtac cgtcgtttta ccgatggttg 120

gccgagaagt atcctctttt agtggcggat gttatcgagg aagagcctgt tgaaatcgaa 180

ggcatcaaga ttcctgtgga tactagtaaa cctaacccta acaacctcga atacgataat 240

ctttatctcg acatgaacgg gattatccat ccttgctttc accccnaaga taggccatct 300

ccaactacct ttgaggaggt gtttcantgt atgtttgatt acattgatag gcttttcgtg 360

atggtacggc caaggaagtt actctatatg gctattgatg gtgttgctcc aagagctaaa 420

atgaatcaac aaaggtctaa acggtttaaa tctgctaaag atgcatccgg tgcactgct 479

<210> 2991
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-H4

<400> 2991

cacgcgtccn atactatctt cagagcttcg agaatgtcga tgttaatggc ggccaaatcc 60

acttcactct ttagctcaaa ccctacaatt tcagctaaaa tagggcaaaa ccctcgcggc 120

gtcagatcgg tttatccgac ggtgagaatg cagtcacgtg ttcaccgtct gattgaagag 180

caaggtgctg tgcttattcc cggagtctac gacgcattat ctgcggctat tgtgcagcag 240

accggattct ccgccgcatt aatctccggt tacgccctct ccgccgtaac tttgggaaaa 300

ccanatttcg gtttgataac acctccggga gatggcagca aacggcgaaa ttaatgttgt 360

gctgcgggtc caaaagantc caatcantgc aagatgcana tactgggtgg agggaaatgg 420

ctctcaaatg ttcaaaagaa ncgtcca 447

<210> 2992
<211> 450

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-E9

<400> 2992

gggtcnaccc acgcaatccg caattttctc aaactctaaa atcaatctct caaatctctc 60

aaccgtgatc aagatgcaga tcttcgttaa gactctcacc ggaaagacta tcaccctcga 120

ggtggaaagc tctgacacca tcgacaacgt taaggccaan atccaggata aggaaggtat 180

tcctccggat cagcagaggc ttancttcgn cggaaagcat ttggaggatg gccgcacntt 240

ggcggattan aatatccaag aacgantcna tcctccactt ggttctcaag gctccgtggt 300

gggtatgcaa gatttttcgt taaaacccta acggggaaag acgantactc ntgaaggtgg 360

anaagctctg acancattga caacgtcaag gccaanatcc aagataagga gggtattcct 420

ccgggaccag caganggttg atcttcgccg 450

<210> 2993
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-F11

<400> 2993

gcggacgcgt gggaatcgat ttcattgatt ttttccatat tcacagcgaa agaatcgatc 60

cttaatacaa aattccttca agatctcaca tctcttataa gnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc tgccggatct tcaaccttgt 180

ctgaagaaga cattttctag ggtttctaga gattggtcgg gttttcggtt caagtaaatg 240

gtggatcagc ctatcgtacg ctccacttca ttangttatc aacgacaata ttcatcatct 300

aataatcatc atcaaaggtc ntgcttcgat cctgaatcct ctngctggct gctgccttcg 360

aataantggt ccttcgacaa tcaaccaagt ggttattgaa aaagcaaatg ctgaagcgtg 420

attcggagtg c 431

<210> 2994
<211> 420

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-F3

<400> 2994

gngtgaacct ctcccaggca ccgaactgaa agaggtatgg aaactcgctg atgtgccaaa 60

ggatgacaaa tatcaataca ctcactttgc tcacaagatt aatagcttcg acactgcccc 120

gaaaaagctg ttgccctctg attcacggtt acgacctgat anatacgcac ttgagatggg 180

cnacatgtcc aaatcaggct atnagaagag cancatggaa gagagacana gagctganaa 240

gagaacccgc gaacanaaag gccaagcctt tactccaaaa tggttcgatg taacggaaga 300

agtcacngct acaccatggg gtgatctgga agtttaccan ttcagtggaa agtactccag 360

nacatcntgc anctgcggat aactctgaag atannaccga ccctaagtcc atncaaatca 420

<210> 2995
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-F7

<400> 2995

cttctacgcg ctcggtaccg gtcannaatt cccgggncga cccacgcgtc cgtctttctc 60

ctctgtttca tcaaactctt catcagtgct tcttattttc ttcaaagctt caaatttctt 120

tttttccttc ttgcaatggc aaaatcgaag aaaatttcta caggtcaaat atttggttgt 180

gagagtctcc ttgggtgcat tttccagagc tggagccctc gccgtcgaaa accctcttta 240

ccggaaaagg atcatcgggc aaaagataac ttgtcttcca agtcatcaac aaccgttaca 300

aaccctaaaa tcctcccaag aaaatccacc gatacttctt ctcaaccaaa gaaatctgac 360

tcccagaaac cccaacaaaa gccaaaacca agatgagaat cacccgcgaa aatcatcgga 420

atccgccaag aaaatcatct gantccggca agaaaaacga nttcgtcaag gctcatca 478

<210> 2996
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-F8

<400> 2996

angcgtgatc attggaggag agttatgcaa gggcatgctg gagctaacgt ggtacctcta 60

gtagcctcaa atcgcatagg gaaggaaata attgaaactg agcatggacc tagtcagatc 120

actttctacg gaacttcctt cattgccgga ccaacaggtg aaattgtggc cgaggcagat 180

gatnaatcgg aagctgttct tgtatcacag tttgatcttg atatgatcaa gtcgaatagg 240

cacagctggg gattgttccg tgaccgtcgt ccatatttgt anaangtgct tcntactatg 300

tatggtaatc tcnaactcnt ttgctgttgg aagctttgat cntttgttta agatcacact 360

gnnggaaatc cattanncan caattantac tggcntaacc ttaaacggt 409

<210> 2997
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-016-Q1-E1-G10

<400> 2997

gaagaagcca aaacgtcaag atgctaacaa cccttgtagt ctaaccactc ccaagattta 60

agaatttttct tacttttgtt ctagttttgt tgagaaaaag atgcatccga tcttcgatgc 120

catccttcaa aatgaccttc cagcttttct tggtttggtg gaagcgagag aatcttccct 180

ggaggagaga agcgaggaac agaacaccaa caacacggtt ttgcacgtag ctgcaaagct 240

cggtcaccga gaactggtcg ccaagattat tgagctccga ccttcccttc tctcttcccg 300

taacgcgtac ggagacacac ctttgcatct tgctgctctt cttggagacg taaacatagt 360

tatgcagatg ttagacactg gattggaact atattccgca cgcaataaca agaa 414

<210> 2998
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-G11

<400> 2998

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntc tttacacgct 60

tgaaacccta gcaatttcaa tttcgtttcc tctaatagaa tcttcatctt tttatggcgt 120

aacgttacac gaatttcaac gatttaggtt ttttttttt ttttttgaag aatcaaacac 180

aaagatagaa acaatgtcaa cggagactac cacgggaaat tcctcgttaa ttccagcatn 240

atcatcatcg tcatcctccg acgcaatcga tccaagctcc gttgcttttt aacggcgacg 300

ataatganag gaaacaacgg aggangaggt ggggaacgga gatntgtcag ggagacaagg 360

gntgagagaa gctgcgangg ttccttagtc g 391

<210> 2999
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-G2

<400> 2999

gcccacgcgt ccgggtgaat tctggggaga agctgaaatt ctttcaaagc ttcatcatcc 60

aaatgtggtt gcattttatg gtgttgtaaa agatggacct ggtgcaacat tggctactgt 120

aacagagtac atggttgatg gttctctgag acatgttcta gtcaggaaag atagacacct 180

ggatcgtcgt aagagactaa tcattgccat ggatgctgcc tttggaatgg aatacttgca 240

cgccaaaaac attgttcact tcgatttgaa atgtgacaat ttacttgtga acctcaaaga 300

tccttctcgc ccaatctgca aggttggtga tttcggtttg tcgaaaatca aaagaaatac 360

attggtatct ggtggtgtac gcggaacctt aacaagggat ggcaacaaag cntctcaatg 420

gtaaca 426

<210> 3000
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-G5

<400> 3000

antttagatt tgcaaagttc gtcttctcca atctacagtt ctacaccaaa tctcagttta 60

ttcgctttga ggacctttt ttgtagattt agaagctcag tgctcgtttt gatttaatct 120

agatccagaa agctgaagtc tttgatctac gaaacgaaat ggttgctaac ttcaatccat 180

cagtggggtc atttgtgtgg gtggaggatc ctgatgaagc atggattgat ggtgaagttg 240

tacaagttaa tggtgatgag atcaaagttc tatgcacttc aggaaaacat gttgttacga 300

aaatctctaa tgcttatcct aaagatgtgg aagcaccagc ctctgggagt ggatgatatg 360

actagacttg cttanttgca tgaacctgga agttcacaga atttgcnatc aagatatga 419

<210> 3001
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-G6

<400> 3001

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gtgcagcaga ggatatcata tcccaaatga gtcaagaaga tgatggtaga aagggaaata 120

aaaaaggaat actcaagaaa cccattacaa agagggctct taaagcatct ggccagtcgg 180

atttctctgg gaatgcttcc aaagacctgc tactaatgca taaacttggt gagaccattc 240

atccaatgac ggaggatttt atcatggttc acttgcagca tagttgcaca cattgctgta 300

cgctgatggt aactggaaat cgttgggttt gcagccaatg caaangattt ccagttatgt 360

gatggatgtt atgaggctga gcagaaacga naagacagag aaagacatct gttaatcaag 420

aanagata 428

<210> 3002
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-G9

<400> 3002

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ttttaagaga gcctccacaa tctttttctta cancaatgga ggaatatatg aganacgcac 120

ctcagatggt cgacgtcaca tctgggccac tgcttctgac ctatacgcct gatgatggtc 180

ttacttctga agatgttggn ccttcacatg aagaacatna aacatcatcg ccttcanata 240

gtgccgttgt tccctctgan naaacgcaac tttcttctca gtcncctcct tcagtagana 300

actcgacana acttcantga tactgatgat ttaatgngtc ngcatgatga tacacctgat 360

tcgtttanca atcctggncc aanatggaat aacctttggg cttaantt 408

<210> 3003
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-H1

<400> 3003

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tgtcatctta tgcaccagtc atctcagccg ccaaggctta ccacgagcag ctatcagtcc 120

ctgagatcac caatgccgtt tttgagccag ctagcatgat ggcaaagtgt gacccgagac 180

acggaaagta catggcctgt tgtttgatgt accgaggaga tgttgttccc aaagatgtta 240

atgctgctgt tggcaccatc aagacaaaga ggactgttca gtttgttgac tggtgcccaa 300

ctgggttcaa atgtggaatc aactaccaac ctccancaag ttgttccaag ntggtganct 360

cgctnangtt cagagagctg tatgtatgat cangtaacaa cncancagtt gcagangtgt 420

tctcacggat ngaccacang tttntcncaa nttgcganga tgggcaattt gtcac 475

<210> 3004
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-H10

<400> 3004

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tctttctctc tctctcagaa actctttctc caataatggc agaggcaagt ttctatatcg 120

gagtcatagg aaatgtaatc tccgtactag ttttcctctc accagtggag acgttttgga 180

aaatagtgaa gcggagatca acggaggagt acaaaagctt gccgtacatt tgcacgttgt 240

taggatcatc gctatggaca tattacggca tcgtcactcc cggagaatat cttgtctcca 300

ccgttaatgg ctttggtgct cttgttgaaa ccatctacgt ttcacttttt ctcttttatg 360

cccctcgaca tctcaagctg aaaacagtgg taatggtagc gatgttgaac gtgttttttc 420

caatcgcggc gattgtggca acgaagaagt gcgtttgaag atgagaagat 470

<210> 3005
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-H2

<400> 3005

ttctcttcgt gtcctgaatc tgtgcaccaa aggttatcga aaatgtcagt gcgagttctg 60

aatcctaatg ccgaggttct caacaaatct gcggcgcttc atatgaccat caacgccgcc 120

aagggtttgc aagatgtact caagtcgaat ctcggtccta aaggaacaat caaaatgctt 180

gttggtggtt ctggggatat taagcttacc aaagatggga acacgctatt gaaggaaatg 240

caaattcaga atccaacagc cattatgatt gcgaggacag ctgttgcaca ggatgatata 300

agtggtgatg gtactacttc cactgttatc ttcattggtg agcttatgaa acagtctgaa 360

agcctgcatc natgaaggta tgcatccacg agtcctaatt tgaatggttt cnaagaattg 420

ctaaagaaga 430

<210> 3006
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-E5

<400> 3006

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cttggttgca atgactaagt gccgtctcca agcaagaaac ttcatgaccc aagagggaat 180

gatggcgact aagaaaatga agcgtcacac aaccgcaatg ccactaagcg ttgcttcact 240

gggaggaagt gttggtgata actacaagca gtttgctggt tcagaaacat ccgatctana 300

atctactgcg acttcggatg gcaagaaggc aagaactgag accgagcatg ccctttggg 360

aggaaatana ggaaataaac cagcgggctg atanatacag ttgttgagat aagttgtgat 420

gaaga 425

<210> 3007
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-F3

<400> 3007

nttctgccgc acggtccgac atncccgggt cgncccacgc gtccggcaag ctcttcaggg 60

tttcccttca gcttccgccg cctccgtcga taagaagttg gatagtctga aggatatggt 120

cgctggggtt tggtccgatg accctgcctt gcagcttgag tccactactc agttcaggaa 180

gcttctctct attgagagaa gtcctccaat cgaggaagtg ataagtgctg gtgttgttcc 240

taggtttgtt gagtttctta agaaagaaga ttaccccgcc attcagtttg aggcagcttg 300

ggctctaaca aacattgcat ctggaacatc ggatcacact aaggttgtaa tcgatcacaa 360

tgctggtcca aacctttgtt aacctncttg cttccccnac caataannntn cntnaaaagg 420

ctttangggc tttggttaac ntnncngnga atcnacaacg gggccttant ctggtcctgg 480

<210> 3008
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-014-Q1-E1-F4

<400> 3008

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tccgtcgtcg tcaagaagat caatttcatt gaaatcgaaa gagtgtgctt gaatcacagc 120

ttatgcagac gctacaccag tcccaacttc tccagaatcc ggccgaggcg gcgaacaatc 180

agtctgaatc ggacgcgccg ccgaaacagg tggctcaggc catggaacga ctcaatcaag 240

cggctagggt tatcgccgat atccgcctcg gcgctgaccg tatccttgaa gctatgttcg 300

tggcttcgca acctcgtcac acagacatgc ctccttcaac tcttctcaag aagaaaacgc 360

ctccatgcgt caacatcctc aagggattct tccgccttaa taagggaaag aaaattggga 420

agaatcctgg gagtgtttaa ctggaatcca cttaaggtca aaga 464

<210> 3009
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-F5

<400> 3009

tcgtaccgga acacaatccg gggcgnccca cgcgtccgaa aacacacata taaacatctg 60

aattctctta caggaaccga acatggagtc atcatcgtcg acttttctca ccacgacaag 120

cttagacaag aaaaaaccat ctccggtttc aagaaaatca ccaaagcaaa agaagaagac 180

gacttcgacg aataaaccca tcaaagttcg ttacatctca aaccccatga gagttcaaac 240

ttgtgcttct aagttcagag agctcgttca agaactcaca ggccaagacg ccgtcgatct 300

tcaaccggag cccatctatt ccccttcctc cgacgaccac aacctttctc caccggcgga 360

gaatcttgcg ccacgtgttc ttcatcagga gccgttcggt gagagagaca gtgattgtta 420

tgagccgttg aatgcggaag acatgttttt acctgatcag atgtcggaag gtttttcngg 480

gtttttcc 488

<210> 3010
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-F6

<400> 3010

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atggaggttg gattcaaggc attgctcgat gatcttgacg ttctcgagaa atctctctca 120

gatccggctc tgatcaacaa ggtctgcgat cacatgttga gaatctagcc actctgtcta 180

aatgtaatcc tcaccggcgt tccaaagtca aggaactaag ctcggaagtg gtagatagta 240

atccttacag taggcttatg gcacttcagc ggatgggcat tgtggacaac tatgagagaa 300

ttagagagtt ttccgtcgcc attgttggga attggtggtg ttggaagtgt tgcggctgag 360

atgcttacca gatgtggtat tggtcgtctt ttgttgtatg actatgacac tgtcgaacta 420

gctaacatga acagactgtt ttttaaaccg gacaagnttg gtatgacaaa gactgatgct 480

gcc 483

<210> 3011
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-F7

<400> 3011

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tgagaaccgc gtaacagatc ttcttacccg ttacaatggg aaatttagac actatgatgt 120

gaacaatgag atgctccacg gatcgttcta tcgagatcga ctagactctg atgcaagagc 180

aaacatgttc aagactgcac acgagttaga cccattagca actctgtttc tgaatgaata 240

ccacatagaa gacggatttg actcgaggtc atcacccgan aagtacataa aactcgtaca 300

caagctgcaa aaaaagggtg cacccgtggg aggaatcggg attcaaggac atataaccag 360

ccccgtcggt cacatcgttc gttctgcttt agacaagcta agcacactcg gattaccgat 420

ctggttcaca gaacttgatg tgtctcgact aacgaaacat ataagaaggg gatgatctaa 480

aggtgatgct atgggaacct t 501

<210> 3012
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-014-Q1-E1-F8

<400> 3012

gcaacaatat ttttctctac tcaattcact cacactccaa aagcggtagc aatgtcagcc 60

accgccgccg cctcctcctc gatcgccgtt gccaccaact ctctcaggaa cgtgactctg 120

tcttccagat cgccccttcc atcagccatc tccgtggctt tcccttcccg tggacgcaat 180

actcttcagc gacgcctcgt tctcgtttcc tgcagtactg gagacggatc taagcctacg 240

attctcgtgg cggagaagct cggtgacgct ggtattaagc ttttggagga tgtcgcgaat 300

gtcgactgtt cgtataacat gactcctgag gagctcaaca ttaagatctc gctctgtgac 360

gccttgatcg tgaggagtgg gactaaggtt ggccgtgagg tgttcgaatc gtctcacgga 420

cggtcaaggt tgttggcccg ct 442

<210> 3013
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-G11

<400> 3013

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ccatttagac nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncac 120

gtagagcaca aacaagccaa gaaccatctc tgctctttct ttcaccttca gcaaccaaag 180

atgatgaaca gctgtggaat ccaacaaaac gcttttgaag agatgaggag aaacgccgcc 240

gtttctgatc ggagagacgc cgtgatttgt cctaaacctc gtcgtgttgg tgctcttaat 300

caccactctt ctcgatctct ccgttggcaa ctcaagtaag atacttttttg taataaagtt 360

caaaactttt ttgaggcaaa tcactttgaa gcaatcagat ttaatggntt ttgaatttgg 420

tagcatcaag atggnaataa tgtgaaaccg aaatcaagga agttgagatt tggggatt 478

<210> 3014
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-G2

<400> 3014

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ttgaaaggtg aaactggaga tagcaaaccg gttcgagaag ctgaaagaat gtatggaaaa 120

caaatccata acactgctgc tacctcatca agctctgcca ctcacactga taatttctca 180

aggtgtaggg acacacccgt tgctgcgact aatgcaatga gcatgatcga atcattcaat 240

gcagctcctc gtaacatgat tccttcaggt atgtgtgtct aatatcaaca tcaaaacaaa 300

atataatcaa gatttttgct tcctcaaatc atatgtctaa actcgaaaat tgctttttc 360

cagtccctca agctcggaaa gcatccttgg ctccgttcct tgggagaaag cgcaaagaaa 420

aggttggatt tggtaatttt tttccttaaa agaaaaattt tganggtttt cnattgaatc 480

caaaaag 487

<210> 3015
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-G3

<400> 3015

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ctcgatatag taagtttgaa actcggggtg tgctgaggac cagtgagttg aacaacactt 120

caaatgtgat ttgttctctg ggttttgatc gggacgagga ttattttgcc acagctggtg 180

tgtcgaaaaa aattaagata tatgagttca attccctttt caacgaatct gttgacattc 240

attatccagc catagaaatg ccaaatagat caaagcttag cggcgtttgc tggaacaact 300

acattaggaa ctacctagct tcctctgatt atgatggtat tgtcaagtta tgggatgtga 360

caacaggaca ggccatttca catttcatag agcatgagaa gagggcttgg tctgttgact 420

tctctgaagc ttgtccgaca aaattagcca gtggaagcga tgattgttct gtgaagctat 480

ggaacatcaa tgagaaga 498

<210> 3016
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-G4

<400> 3016

ngccacgcgt ccgcaacaac cananaaaac acagacctta aaaaaataaa aatggttgat 60

atgggattgg gaagaggaag atggtatcat caagatttta ccaaaactca cctaagcttt 120

cttcaaaagc ttcacgtaac tattccatca ccgttcaaaa tcgtccctgt ttcatctccg 180

atctcatgtt cagcacctgc tctttgctct gcttacgagc tttaccttcg tctccctgag 240

ctaagaaagc tctgggtcat ctcgtgattt tcctcaatgg acatcaagag ccgattctca 300

aaccaagctc ttcaagcttt gggagatcag tttcaagatt agttttcgcc gtttgttctg 360

atactagacc gtacatcaac caacggtgaa tggaaccgga ggctaaattc tctcatcacg 420

aagcanattc aaccttgtaa caacgatttg caagatgaag aaagaagaaa g 471

<210> 3017
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-G6

<400> 3017

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ggaaagagca ttttgttatc aagactctga agagctcttt tgggaggata gtaaggttgg 120

atgatgagag ggagatctga tggaggccta aagaagcggc ttattgcttc ggtctgtgtc 180

gtggctctat tcgtctgttt cttgtttatg tactatggtt cctctancca aggtgcatca 240

gcattggaat atggaagatc tttgagaaaa ctcggatcgt cttatttgag tggagatgat 300

gataatggtg ataccanaca ggatgantct gtggctaatg cagaaanaat cttgttgtcc 360

caaaagtttc cctgtttgtg atgaccggga anccggnaac atcccttgct tanataagga 420

atttaactac aaattnagg 439

<210> 3018
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-G8

<400> 3018

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gagtttcacg tctcaagatt tgatcacttc tgccaatttt ccagattgat ctctctaatt 120

atggcttcca tgagtttcgc cttgaatcgc ttctctggac tctcctctaa aaccacctta 180

tcagctgact tcgatccatc ctctcgccgg agttttctac cgccgactag agttggactt 240

aagatctctt ccgccgccga atcggagcct gatctcagtg tcactgtaaa tggcctgaaa 300

atgcccaatc ctttcgtgat cgggtcgggt ccaccgggta ccaactacac cgtcatgaag 360

agagcctttg atgaaggttg gggggccgtc atcgccaaaa ccgtatcttt agatgcatcc 420

aaagttatca acgtgacacc tagatatgct cggctacgaa ccggattcaa tggntc 476

<210> 3019
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-G9

<400> 3019

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gcccacgcgt ccggtttttg ggttttgggt ataaagcttg ttactttgat ctttatttttg 120

tgaattcgaa gtggaaatgg aatcgttacc atctccattt ggcgatccag ctcctaattt 180

atccaattcg gagctccgag aaactgctta cgagatctta gtcgctgctt gccgtagcac 240

tggaagtcgt ccgctgactt acatccctca atcgccgaaa tctgatcgga gcaacggtct 300

gacgacggcg tcgttatctc cgtctccgtc gcttcataga tctctgactt ctacagctgc 360

gagtaaggtg aanaaggcgt tagggatgaa gaaacgaatc cggagacgga gacngaggaa 420

cgggagaatc gtccaatcaa ccggatncgg acaagaaatc cgtcacggtg gttaattggt 480

nc 482

<210> 3020
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-F12

<400> 3020

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gattgaagat aacgatcagc tcctaaacca atcaacttcg tcctcgccgc ataacttcca 120

cctgataaaa tcgccgtcac aaccatcacc ggaagctctt tattattcat cctctcattc 180

ctcggatcca acatttgcac caatcgaatc acactcttct catctctcat caactccttc 240

cgatttgatc taacggtcaa caacgacttc gccgcctccg tcgccgcttc ttgtaacccc 300

gccggtttcg gcgattccat taaccgaatc aacgagctta aacaatcagc gacggctcgt 360

ttgttaccgt cgctgatgnt aaattcgata aaagagaagt tgagatntgt tgaaggatta 420

cgtttccgtg tttaa 435

<210> 3021
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-014-Q1-E1-D8

<400> 3021

ttttttttgtt ctttcctctg actggaaaaa gcttcctcag atcgtttcat cgtccaagcg 60

gaagaagcgt ctccttcaat caccgtggac acctccgaga ctgtctccga ttgaatggga 120

attgaagaca tgcattcaaa atctgacagt ggtgggaaca aggttgattc agaggttcat 180

ggtacagtat cgtcgtcgat aaatagttta aacccttggc atcgtgctgc tgctgcttgc 240

aatgcaaatt ctagtgtgga agctggagat aaatcttcta agtcaatagc attagcattg 300

gaatcaaacg gttccaaatc accatccaat agagataata ctgttaacaa ggaatcacaa 360

gtcacaacgt ctccacaatc agctggagat tatagtgata aaaaccaaga tctctgcatc 420

atggatcaca caacctcctc tc 442

<210> 3022
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-014-Q1-E1-D9

<400> 3022

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ttcccaacgc aatcttcttc acccaatctc taaatctctc ctaaattcca tgtctctcgc 120

ttccattcgc cgtttagctg ccggagctgc cgtaattgcc gctgcatccg gtggcgctgt 180

ctacctgtct ccgtcggttg cctccagcga caaaggaggt ggtccgattc tagattcgtt 240

gaggcgtaag cttggtgatc ccaccgcttc tgtaccgtct cgatctgctc aagagtctgc 300

tctgattgca gccaccgctt ctgattcgct cgatgttctc gtcattggcg gtggaaccaa 360

cggttctgga gttgctccnt gacgctgtta aacgttggcc tccgttgttt ggtttggtgg 420

aancgcnaag gattttctcc tcctgggaan tttcttccgc aatttacaaa agctggaatt 480

caanggaagg gggttc 496

<210> 3023
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-E1

<400> 3023

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ctccaaacat cgccatgtcc gagattctct cttcgttgag gtcactaatg gcctctcact 120

ctcctcctct tgatgctttg gttgttcctt ccgaagacta tcaccagagc gagtatgttt 180

ctgcacgaga caaacgccgt gagttcgtgt ctggattcag tggaagtgca ggtttggcac 240

ttatcacgaa gaaggaagca agactttgga cagatggtcg atacttcttg caagcattgc 300

aacagcttag cgatgagtgg acactaatgc ggatgggaaa aaattctcct tgttgaaatt 360

tggntgtcct gataatccaa ctgaaagang gaaatataag gtgttgattc aaggggtgtn 420

ccngtnaaaa atgggaatan atgggggaaa tcntttggca agaagaat 468

<210> 3024
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-E10

<400> 3024

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caccggtaaa aatggcgatg tgggtattcg ggtacggatc tttaatatgg aaaacgggtt 120

ttcctttcga cgaaagcctc cctggtttca ttaaaggcta tcgccgtgtc ttccatcaag 180

gtagtactga tcatagagga actccggatt ttccgggaag aacagtgaca ttagaagctg 240

ctcatgaaga agtttgttgt ggagttgctt acaagataac taaagaggaa gataaaagag 300

atgctttatt gcatttggaa gtgagggaga agcaatatga tcagaaagag tatcttgatt 360

tcttcactga ctctaatgct tcggaaccgg ctgtggcagg agtaatggtg tacatagctt 420

cacctgacaa gaagagcaac aacaactact taggaccagc tcctcttgaa gatattgcca 480

aacag 485

<210> 3025
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-E11

<400> 3025

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catcttcttc ctcctctcga cgacnaagag attaaaaaga gacggccttt tctcagtttc 120

tgctccgatt cgtatatctt ctgtttcgtn cgagtgttgt aagangtttg ttttgcctga 180

gactatacgt ttgtcatgga tatagatctt cgactacatt caggtgacct ttgcaaagga 240

gatgatgagg atagaggact tgataatgtg ttacacaatg aagaagatat ggatattggc 300

aaaattgagg atgtttctgt tgaggttaaa tactgatgac agtgtangca ttgggtgtcc 360

aactggggaa gttgggntga attacacctg aggggtaatg aatccttgga accctcctta 420

atnggtaatg gantttgan ttacaacggt ggaaagcgtt attcngtttt aaccaagnag 480

gtaatccccg aa 492

<210> 3026
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-E12

<400> 3026

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ntctccttac tcaaatctcc 180

acttcccgtc tctttacgcc ggagatcatc aactctcgtt aaagcctctt ccaccgtcgc 240

ttcagcttcc tcttctccaa ctcctccttt ggttccagct ccggttccat ggcaaggagc 300

tgccattaag cctcttctcg cttcgatcgc tactggtttg attctatggt tcgttccagt 360

ccccgaaggt gtcactcgca acgcgtggca attactcgcg atcttcctcg ccaacatcgt 420

cgggatnatc actcagccgc tctctcggtg 450

<210> 3027
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-E3

<400> 3027

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atgtcttgat gttggaggcg acgccggagg ctgcgaggcc ctgggctagt gcggcgaatg 120

cagaagttat cgatgcgctt ccttatatag acgacgacta tggcaatcca ttgattaagt 180

cggaggtaga ccgtttggtg gaggaagaga tgcgtcggag ctctaagaag ccagctgact 240

ttctaaagga cttgcctcct cttccgaagt tcgattttaa gaactgccct gttcttggca 300

aaagaagtat gagccgtgtt tagaactggg aaanccccctg ttccgggtaa gattccaatc 360

cccgatacaa aacttngaaa tngncaactt gccaaattaa gaaggaatga atgaa 415

<210> 3028
<211> 522

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-E4

<400> 3028

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aatctaattc ttgaagataa cgttggtgtt ctgcgtggag ccgctaaacg cgccgctact 120

tctgcttggc atctgcgcca caacagcgtt cgtaagcatg tggatgcata acgtagcagc 180

tgcagtcatg atgatgcctg tcgctacggg gatacttcag agactgccct cgtcatcatc 240

gacgacggaa gtggtgcatc cggccgtggg gaagtttagc agggcggtgg tgttaggtgt 300

gatatactct gcggcggttg gtgggatgag cacactcact gggaacagga gtgaaatcct 360

gaatccttgt tggaaatgtt ggaaaaagct actttccctg aanggctgat tccgattaag 420

ttttnagcca aatgggttcc ttccttttgg cttcccaatt gggcntttgt gcaataattc 480

cttggtggct ttgggtgttg ttcctttggg gttaaagtaa tt 522

<210> 3029
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-E6

<400> 3029

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tcnagttttc tggtgtgtcg ccgatcantt ttcanttacc aactggctta tttgtgcttt 120

gatctgaggc gaangtttga gttctaagga gtgtatcgtt taatcatcaa gctctgtttt 180

ccttctttcc cgaggaagct ctaaggcttt ttcggtggat caagacggac gganggagga 240

ttancacgtn nataagattt aacaggaatt tgcggaattt tgattatatc agtgagtaga 300

agaaatgagc gcagtctcgg gtgtaatctc nangcaagtt ttgcctgttg gtggtaacct 360

ttgaattctt tgcctgcgct tcgtgcaagg tcaagacanc ctgtgaagaa ggtacaagaa 420

cctaattcct gaaatttttc 440

<210> 3030
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-E9

<400> 3030

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gcagaagaag ctcaatctcc caatcctacc aaccacaacc attggatcct tcccacagac 120

tgtagagctc aggagagttc gtcgtgagta caaggccaaa aaggtctcag aggaggacta 180

cgttaaagcc atcaaggaan agatcaagaa agttgttgac ctccaagagg aacttgacat 240

cgatgttctt gtccacggag agccagagag aaacgacatg gttgagtact ttggtgagca 300

nttgtctggt tttgccttca ctgcaaacgg atggggtcca atcttaagga tctcccctgt 360

gtgaagccac cagttatcta tggtgatgtt agccgtccca aaggcaatga ccgtcttctg 420

gtccgcaatg ggntcaaa 438

<210> 3031
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-F10

<400> 3031

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cgcgtgggcg gacgcgtggg cggacgcgtg ggtgttaaca ttggaagtgg tcaagaagtg 120

actattagag agttggctga gttggtgaaa gaggttgttg gttttgaagg gaagcttgga 180

tgggattgca ctaagccaga tggcacaccg aggaaactta tggacagctc aaagctcgcg 240

tctttgggtt ggacacctaa ggtttctctt agagatggtc tgagccaaac ttatgattgg 300

tatttgaaga atgtttgcaa ccgataagtt aatggtttct cttctcatat atacacaact 360

attgagtctc angtaaatca gcttatcacc acattgtgat ttaaaccttt ctttgagatt 420

ccaagaattg ctttttttt taacaaaatt gattcattta gagataagac ttgcttcttt 480

aaacaaca 488

<210> 3032
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-F11

<400> 3032

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tattcgccgc aagaaagatg tctccggcga agaagagccg aagttttcct ccgataagcg 120

agtgtaaaag cagagagtat gattcgatcg ctgcggatct cgacgggact ctgcttctgt 180

caagaagctc tttcccttac ttcatgctgg tggccattga agcaggtagt ctcttccgtg 240

gattgatcct tcttctttct cttcccatcg tcatcatcgc ttatctcttc gtctccgaat 300

ctctcggaat ccaaatcctt atcttcatct ccttcgccgg tatcaagatc aagaacatcg 360

aactcgtctc tcgcgccgtt cttacacggt tttacgcggc ggatgtgagg aaagataatt 420

ttgangtgtt tgataaatgt aagaaganga aagtatggtg actgcgaatc 470

<210> 3033
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-D4

<400> 3033

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ctatatcgac gccgtctaat tcctatcatt tctcgttgct ccaaaaccct aactttacta 120

ccgtcggtca ttattttcac tttctcggct cgatttggtg ttggaggttg gtaatcagtt 180

atgggcgctc cggaaaagtc tcaatctaat accaattcga tgcagagagt gaaagtctat 240

catttgaatg aagatggtaa atgggatgat cgaggaactg ggcacgtaag catcgacttt 300

gtggagcgat ctgaagaact cagtctatgt gtaattgatg aagaagataa cgagacgtta 360

cttgttcatc ccatcaaccc tgaggatatt tacaggaaac aagaagacac aataatctca 420

tggagagacc canaacggct caacagaatt ggctttaagc ttcaagagac tgcagggtgg 480

cnctaagtt 489

<210> 3034
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-B4

<400> 3034

ccacggtcca tgaaacccgg gtcgccccac gcgtccgcaa ntccataatt tcaattcctc 60

tcgacgtttc acggcgaagc ttcagatcta cttttcccca gctcagtatg gagacggttg 120

attctcggaa caaattgcat tcccggttac gtttatggga attccccgat cagtacatca 180

tcgagccagc tgatggctca ggctcttcat gtttggatat tagtcgtgtt gatgcttcca 240

tgaagctcat cgatcaagtc ccagaaagca attccgtgcg tgtccctaaa atccgttcca 300

tttttggtgt ggttgggatg ttgaagctcc ttgcaggatc atacttggtg gttgtaactg 360

agagtgaacg tgttggatcg tttctggggc atcctatatt caaagttaca acgcttaang 420

gtcctccctg tgatnaatca cttaaaaact cgcctgaaga acagaaaaag atggngaacg 480

agtttccc 488

<210> 3035
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-B5

<400> 3035

ttnattaggc tcgccgtacc gganagaaaa ttcccgggct ttctctctct caatcacaag 60

tttcagttac acagctgaac ccaaagtatc tcacattctg atctaatcag aacactgttt 120

tgtctgtgta acataaacaa acgatcctgt ttttatggaa aatttaatga aacagtgacg 180

attcttctac acttctttat aatgacaaac atttcatagt accaaaatac acaaatacct 240

tttctttatt cttctcaccc ttctctgttt ctttatcatt catggctcca aattcagtan 300

cagtgacaat ggagaagcca gacaacttct ctttactaga gatcaacggn tcaagattca 360

tcctcattcc ccgacaaacg taaatccatc aagtccaaaa caattctcat ggntccttcn 420

tctcaaaagc tcatanactc atcccgtgtc tctcgtggct antcccntcg gttaaaaagc 480

gaatcncgtt ctccgcgaaa gaacattaac 510

<210> 3036
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-B6

<400> 3036

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aaacccaaat gtctcgtctc ccgattttaa tcgcttcgtg tctcttcctc tcttcactca 120

ccgccgccgt cgtcaccgcc gccgaatccg atactccgac ggcttattca ctcctccaaa 180

gctacaactt ccccgtcgga atccttccaa aaggagtcgt agcttatgat ttagacacaa 240

taacaggcaa attccatgcg tatttcaacg attcatgtag cttcaatctt gttggttctt 300

accaattgaa ttacaaatca acaatcagtg gttacatctc cgagaacaag ctcaagaaat 360

tgactggtgt taaagtcaaa gtttgttctt gtggcttaac atcgtcgagg tattaagaac 420

gggtgacn 428

<210> 3037
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-C1

<400> 3037

gggtccgaac anaacgggtc gagncacgcg tccgaacttc aacacagtga cggtttatga 60

aaagggagct gaggtcgtca ggatgtacaa aactctacta ggaactcagg ggttccgaaa 120

gggaattgat ctctattttg aaagacatga tgagcaagca gtgacttgtg aagacttctt 180

tgctgctatg cgtgatgcaa ataatgcaga ctttgctaat ttcttgcaat ggtactctca 240

agctggaacg cccgttgtca aagtggtatc ctcttacaat gctgacgctc gtactttctc 300

tttaaaattc agtcaggaga tanctccaaa ctccaaggcc aagccaacaa aaagaaccta 360

catttaatcc aatgggttgg tggnccttg gacccaaatn ggaaaaacaa tantccttnc 420

tccggtcaac aagaanggac aatncaaacc aattnaagga acaacacaat actccagttg 480

ccaagaaaga aa 492

<210> 3038
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-C11

<400> 3038

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tctctccatg agaactctaa tctctcaccg gcaatgtgtg acgtcaccgt ttcttatctc 120

cgccgcatct ccaccgtttc ctggccggtg ctttaagtta tcctccttta ctcctccacg 180

tcataggcgt ttttcttctc tctcgatcag aaacatttcg catgaatccg ccgatcagac 240

ttcttcttct aggccgcgaa ctctttatcc tggtggttac aagcgtcccg aactcgccgt 300

tcccggttta cttctccggc tagacgccga cgaggttatg agcgggaatc gtgaagagac 360

tcttgatttg gtcgaccgtg ctttagctaa atcggttcaa atcgtcgtga ttgatggcgg 420

agccaacgct ggtaagctct aagaagcggc ttgtttgctg aaatcacttg tcaaanggc 479

<210> 3039
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-C12

<400> 3039

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ggggtttact gcaattgcac ggtggtaatg gctgcggttc cgcctnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ccacgtctca aatatcagag gatgggtggc 240

aacgttcctg cgttgctatc taacgatgct gcttcctgca tcgctgttgc tgcgangatg 300

atcgcgcttg gtacgcacga cggtaccgtg cgtatcctcg atttattggg gaatcangtt 360

aaagaatttc gtgcccacac tgctccggtt aatgacatca actttgacac tgaaggagag 420

tatatccgaa act 433

<210> 3040
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-C2

<400> 3040

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accaacttgc cctcgcggct ctattcggag cttccttcgt tgctgtttct gggtttttca 180

tgcatttcaa ggcactgaat ctagtccttg agcgtggtaa ggagcgtaaa gagaaccctg 240

atggagacga gcctcaaaat ccgaccttgg tgaggcggcg gagccaagtt agaaggaagg 300

ttaatgacca atatggtcgc agtcctgctt ctcttccaga tgccactcct tttaccgatg 360

gtggcggcgg cggcggcggt gatacangac gggacaacgg tcacgtttat gttgatgaaa 420

ttcctcctgg tctccctaag gcttcaataa cgccatcctg aaagggaaaa gcttccggta 480

caatggaagc taagtaanta tcaa 504

<210> 3041
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-C5

<400> 3041

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tgaaaacaca aaccaaagtg atgggaggac atgtcttgct tactgttttc actctttgta 120

tgctttgttc aggggttagg gcacagctaa gccctgacat ttatgctaaa tcgtgcccca 180

atctagttca aattgtccgt aaacaagttg ccatcgccct gaaggccgag atacggatgg 240

ctgcttctct cattcgtctt catttccacg actgctttgt taatgggtgt gatgcgtcgt 300

tattgttgga tgggagctga cagcganaaa ctccgcgatt ccaaacaata aactcctngc 360

aaaaggattt gaattatttg atacatccaa anccgctgtg gaaaacnaan ttcctgtggt 420

ggttcctngt gctggaaanc tnnactttgg cggcccttaa cccnttt 467

<210> 3042
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-C6

<400> 3042

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tgttcctttc aagcatgttt acgagcaaaa gagtgaaagg gtagcttgat ttttgtctac 120

tctagcttca ttttctggcg atctttactt gagatttaaa cattttgctc tcggattgat 180

aataaagaag aatttggaat atcagtaggt ttggttagga ctctcggatt ctgttgtcgg 240

ttagatattt gttttgttta atccctagat ttagcagaga aatccctcaa atctcacaca 300

atccatgtaa ggaagaagat gacctccagt atcaaatcaa gtctgctaaa tctagggctc 360

cttattatat ttttcgtctt cttcttcctg gtgattaact gtcnagggga atcttctacg 420

tgtttggcgg tttacaaaca aggc 444

<210> 3043
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-C8

<400> 3043

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ctgttggaaa ttagatctcg tcttgatcat aaattcaaag aagctaatca aaaaggacct 120

ctttgggatg aagtttctag gattatgtcc gaggaacatg gataccaaag gagtgggaag 180

aaatgcagag agaagtttga gaatctgtac aaatactata ggaagactaa agaaggcaaa 240

gccggaagac aagacggaaa acattacaga tttttccggc agctcgaagc gctatacggg 300

gattctaata acttggtttc ttgtcccaat cataacacgc agttcatgag cagtgctctt 360

catggtttcc atactcaaaa ccctatgaac gttactacaa caacgtccaa catccataac 420

gttgatagtg ttcatggttt catcaaagcc 450

<210> 3044
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-D1

<400> 3044

gnggccggtc cgagaaaccg ggtngngcac gcgtccggan aaattgcaga cgtggcatat 60

agacgaaata caagattcag agataataaa tacgtcacca aaagttatca cccacaacga 120

atcttcttct tccatcgcca ttgccatggc taagctctcn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn catgtgcaga gatctcataa gccttccctc ttctcctccc acaacaactg 300

gcacgtctct ctccttcgct ctctcccttc ctccccccaa ccaagcaacg gtggtccaat 360

cctaatnaac gcgccgttca atgggttntc cgntcgtctc tnccctaanc aaaccgncgn 420

cctccgncgt nancettcan tnanctccgt tatacctgat naagc 465

<210> 3045
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-D10

<400> 3045

ttccattagc ncggcccggt ccacactacc gggtccancc acgcgtccgg nggaacacgc 60

tgttgttcat ggatccaccg ctgtagctgc cgccattgat ctctacactt acgttactct 120

ccgctttcct cttccatcag ctgagaacaa tgataggctt acacttcagc tcaaggacat 180

ttccttggag ttttcatggt ccttagccag aatcaaagaa gcgattcctt atgattcaag 240

cactctctgc cgttctacgc cggcttcatg ttcagaggag acccttaaat caattgcagt 300

tttggttgaa gagcaaaatc ttccaaagga aaagatgtgg ctctcctctg ggatctccac 360

gtttctctgg ttatacacca gaattatagg gttcaatccg gctacaagta gtcattaact 420

ctgagcttcc atacgggtct ggcctcggtt catcagcagc ttaagtgtac tctcacaagc 480

t 481

<210> 3046
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-D11

<400> 3046

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ggaatacaag aacattagtt tcaccgtgtg ggatgtcggg ggtcaggaca agattcgtcc 120

cttgtggaga cactacttcc agancactca aggtctaatc tttgttgttg atagcaatga 180

cagagacaga gttgttgagg ctcgagatga actccacagg atgctgaatg aggacnagct 240

gcgtgatgct gtgttgcttg tgtttgccaa caagcaagat nttccaaatg ctatgaacgc 300

ctgctgaaat cacaagataa gcctgggctt cantccctcc gtnaagcgtc attgggtata 360

tccaaaagca catgtngcac ttnaaggtga aagggccttn atgaaaggcc tngactggnt 420

ctncaanaac atccctggca aagcnttatg aaggaaaaaa ttgcctttcc tccaaatgaa 480

tcctgtcngc cgtg 494

<210> 3047
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-B3

<400> 3047

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tcctcaaacc ctggagagag agagagagag tgacggggga agaagatgac ttctgctttg 120

tatgcttccg atttgtttaa gcagctcaag tcaattatgg ggacagattc gttatccgac 180

gatgttgtac ttgtgattgc aacgacgtct ttggcactag tagctggatt tgtggtgttg 240

ttatggaaga aaacgacggc ggatcggagc ggggagctga agcctttgat gatccctaag 300

tctcttatgg ctaaggacga ggatgatgat ttggatttgg gatccgggaa gactagagtc 360

tctatcttct tcggtacgca nactggaaca gctgagggat ttgctaaggn attatccgaa 420

gaaatcaaag cgagatatga aaaancagca gtcaaagtca ttgacttgga tgactaagct 480

gccgatgatg accant 496

<210> 3048
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-B5

<400> 3048

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cgttttcata ccatctttcc acaattaccg tatttggtct ttcctcggcc ttggcatgac 120

cacctacacc gcttggtacc tcaccatcgc ctcttttctc catggtcagg cggagggtgt 180

gacacattcc ggtccaacca agcttgtgtt gtactttacc ggagccacca acatcctcta 240

taccttcggt ggacacgctg tgaccgtgga aataatgcat gcgatgtgga aaccaaggaa 300

gtttaagagc atcctaactt gatggcaact cctgtacgtt cttcaacaat taaacgcctt 360

ccgtnaagct ccggccgttc taactggggc tttccgggng aaccaacttn ctcaaaccaa 420

ctccaaaacg ccttttctcc tcctcctccc ctaaaaac 458

<210> 3049
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-B7

<400> 3049

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acttacataa tggggtgcat gttctcncac ctcgccgcca aattcgcctt cttcccaccc 120

tctcctccca cttaccacct caccaaaacc cccgacggca aactnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnggagacc catctctcga cgtcaaagta 240

gtaaagacaa gacgcggcaa caaagtcaca gctttttacc ttagaaaccc taacgcaaga 300

ctcaacactt ctctactcct catgggaaaa tgctggcaga atttgggaac aactccttcg 360

attccctttg gttcaaactc aaaaggtcaa atcctccgga ngtcaatcct caatnggggg 420

taatgaatta aattcaaggg ctaatggaag ccttctaa 458

<210> 3050
<211> 550
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-C1

<400> 3050

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gctttccgct tcaaccacct cttattcctt accgttaaag aagcttagag tctttggtag 120

ctatcaagct tcatatcatc atcttcttct tctcaggtca agagccattc tatggtttaa 180

aggatgctcc tggctaatct cagcacttag tttctctccc tctgctctaa aagctacccc 240

attttatgga atttggaggt ggctttttaa gcagatccca atgggatctc ctgtttcaga 300

tggtgatcat gtcgtaattt gtcatctcct caaccttcct tgcaaattgc atccttcccc 360

gaagaagaaa tggggnttcc tcntttggaa gaagaataat tggccnaaat ggggagcaat 420

caatcaatca atcaaaatcc aaatccaagg ttgcccaaat cctcaaaacc cggaatgcaa 480

tgttttcaaa ccnttaaatt tannttaaa ggtttggntt ttaaccccta aagggatggg 540

gctaaatcca 550

<210> 3051
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-013-Q1-E1-C10

<400> 3051

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ctttgaaatg gcaaaacatg aagccatcac ttcccttgaa atatacaagc gtgcgggtca 120

gcaggctcgt agcctttctg atttctatga agcctgcaaa ggattggaac ttgcaaggaa 180

ttttcaattt cctgttctaa gagagcctcc acaatctttt ctgacaacaa tggaggagta 240

tattaaagaa gcaccgcgtg ttgtcgatgt cccagcggaa ccactgcttc taacatatag 300

gccggatgat ggactgacta ccgaagatac tgaaccgtcg catgaagaac gtgaaatgtt 360

accttcagat gatgtcgttg ttgtatctga agaacagaac cttctccccc gcctctcctt 420

cagccaacgc tcagaacttc 440

<210> 3052
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-C5

<400> 3052

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taaactttac cctctcttaa atcactcatc cgtttttcac ccagacagtc gttnccaatc 120

ggcccctaca atggaggaag agcaacaaca acttcgtgtt ctcttcgcga aatacgagat 180

gggaaggtta ctaggcaaag gaacattcgg aaaagtttat tacggcaaag agataacaac 240

cggagaaagc gttgcaatca aaatcatcaa caaagatcaa gtcaaacgtg aaggtatgat 300

ggaacaaatc aaacgaagag atttcaatca tgagacttgt ccgtcatcca aacatccgtt 360

gagtttaaag aagtcctggg tacaaaaaca aagattctcc ttaacaaggg aatacgttaa 420

ang 423

<210> 3053
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-013-Q1-E1-C7

<400> 3053

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tcttactctc tgcatctgtg acaacgcgag taactttggc ggcaacaaaa ggaacctctt 120

cccagatttc tacaggagct cgtgccctag agcggaggag atcgtgaggt ccgttgtagc 180

caaggcattt gaaagggaga ctcgtatggc tgcttctctc atgaggctcc atttccacga 240

ttgtttcgtt cagggttgtg atggatcgtt gcttctagac accagtggga gtatagttac 300

tgagaagaac tctaacccta acagcaagat tggctcnccg gttttgaaag ttgtttgacg 360

aagatnaang gcaacattaa gaagaatgaa atgccctaaa caactgtcct ccntggtgcc 420

tgaacgcccn ttaaactcct aagctggcta anaagaactc cctcccggtt cccttaaaan 480

ggtgggg 487

<210> 3054
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-C8

<400> 3054

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ccggagaaat tcaaatcgtc atctctaatt cgtcggagaa tccaccgtta ggtatataaa 120

cacggtttgt ttctgaaatt agggtacgaa aaaatgccct tgtttatgcc tgacgaagag 180

ctggcgcggc tatctagcga cgccgcgtcg gtggttgcgg agagagccga cgagtacata 240

cgaaagatat acgccgagct ggatagtgtt cgagccaagg ctgacgctgc ttccatcacg 300

gcgggagcag acgtgttcgc ttctcgagca gaagtacctc tcgctgtctc aaggatttct 360

ccttcccttg aatctcaana acgcnaaagc ttcantctga ttccgatgat tcgtttaanc 420

tgaccttgga 430

<210> 3055
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-D1

<400> 3055

ctngtcgtgc cgtcacaatc aagggtccac ccacgcgtcc ggnttaactt gggctcgctc 60

tgagtttgag ggtctgctgg agaagactcc cgctgaagtg aatgcatatc tttctagccc 120

agttgagtac actaactcaa tgatgagtgc tggtgatgct caggcgaggg acacattgga 180

gaggattgtt gagtgccttg aaaaggagaa gtgtgagacc ttccaagact gcttaacctg 240

ggcacgactg aggtttgagg attactttgt gaaccgtgtc aagcaattga tatacacatt 300

tcctgaagat gctgcgacta gtaccgggag ctccaatcct gggtctgccc aaaaagaatc 360

cctccgtcca atccaantat cctccgccga accaaatccc ccttaaacnt taacacaagc 420

gaacngcaat ttaccaacaa anacattttg ggattccgaa nacctgantt gactaagaaa 480

ccaaagggaa caacaaaaac tggtt 505

<210> 3056
<211> 364
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-D12

<400> 3056

gcncacgcgt ccgggcggat catcggtttc gaggttagac tcgttccgga ggattttgac 60

aagggaaaga tcttcgaaca ggcgggatca ttctcgcgtt gaccaagatc gtgaattgga 120

tattgaaaga cagtgaattc agtatatagt atatacacac atacgccggt taaaaaaaaa 180

aaagtataaa cacacatgca tccataatta atccttaatt catgaaccat aatacttctt 240

cttccttta actttttatt cttgtactga aatcttttgt atgtgtaaat atgaatggca 300

cactttttgt atgttacagt aattacaaaa acattgttgc ttaaaaaaaa ncataaaaaa 360

gggc 364

<210> 3057
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-D2

<400> 3057

aacgtctagc ttgcccgtgc cggtccanaa attcacgggt ccacncacgc gtccgcacac 60

gcntccgccc acgggtccgc ccacgcgtcc gcgcgtttct tctcctaggg ttagggttcg 120

acgaacgcag ctgttccacg cgtttagttt caattctcca tcgaagaagc cataatccga 180

ttcctaaaga gcttacattt gttactcaac tttaaagttt tgacgctaga gattactatc 240

ctcttgctgg gaactcaacg tgaccagact gtgtttgaaa gatagcaatg gctggagtat 300

tagctgggga ttgttcattc ggtgagagtg gtgtttcatc ttactccagg aattccaatg 360

aaaagcagga cganggttgc ccgctggtaa ttttggaaga aaaagaaant tgaagaaaan 420

tcacctcnaa ggttggataa taattgacct taaagaaagg aacataactc cgcaagtcca 480

aactggncaa ttttgcaagg attaagcatn agaatta 517

<210> 3058
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-D4

<400> 3058

gtgccggtcc acaataacgg gtccacgcac gcgtccgaac acttctctct agctcacact 60

cacaacactc tctctctcct gccataactc agcctgagat gtctccggaa gcttacgttc 120

tgttctttaa cagttttaac ctcgtaaccn tcgangcctt tgcttcagtc tcacttatca 180

tagccacagt tgctttcttg ctctcaccag gtgggctcgc atgggcctgg accgggtcat 240

ccaagagtcg ggtttcgatt ccaggaccat ctggttctct ttccgtcttc tccggctcca 300

atccccaccg tgttctcgcc gctcttgcta aaagcntcaa ggctctccgt tgatgggttc 360

tcagttggtt tccgttcgta tctcantgaa cggagaangg taagaatttg agcactctgc 420

tttgtncggc cgttaagatc nctacaactt tgttcacgtg cat 463

<210> 3059
<211> 474

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-D5

<400> 3059

gacagtgatt tgtcacaatt gagcgagaag attagtttac tacttttcga gaacgatgac 60

caattggatc aagatgctca tgaatgaaat ctcccaagaa aatgatgaan ggcaaccttt 120

tgcaggaatt ctgaaagaaa gcttacactc atgggctttt acaaaagata gcagaaaggt 180

ggaaaaggcc aagttgtttt ggttgaaggt ggccaaggng tattacattt tgcnaccttc 240

ccttgggtaa aactgggcct tananccaac aataancccg ggggtaacct tnattttccc 300

aaattaaaag gttgggccca cattccattg ggggaaactt tccntnggga aggnaaaagg 360

gaaatttggt ccaaacccaa acncnttggg ggcnggcccc cgggaacttt tancggnccc 420

naaccccaaa ntttccnacc ncgggganccc aacctttccg gttttaaccc aaag 474

<210> 3060
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-D6

<400> 3060

gcaagacgcg tgggcaagtt gcgaacatgt atctctggcc taagaccctt gtagttccaa 60

tccttgaccc tgcaaaggcg ttcagaaggc ctgttggaat tgtccatgtg aaagttgtga 120

gggctgtggg gctgaggaaa aaagatctga tgggcggggc agatccattc gtgaaaatca 180

agctctctga agataagatt ccttctaaga agacaacagt taaacacaag aatttgaatc 240

ctgaatggaa tgaggagttc aaattctcgg tcagagatcc ccagactcag gttctagagt 300

tcagtgtgta tgactgggaa caggttggga atcccganaa gatgggtatg aatgtatnac 360

tctgaaagaa tggtgcctga cgaacataaa gcatcacctt ggaactgcnt aanactctgg 420

acggcggtaa aatgggcacc ccctgan 447

<210> 3061
<211> 474

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-B4

<400> 3061

aacgtctagt tgcccgtgcc ggtccanaaa ttnacgggtc cacgcacgcg tccgtatcaa 60

nttccctatc aaagtgaatg actttcttct ccaaaatcga tttctgaaac atcccatttc 120

ttgatttccc tctttgtcgc aaacccaaca aagtagagca aaaccctaaa acggaaacct 180

tccatggcga ttatctctga ggtagaagaa gaaagcagta gcagccgacc catgatattt 240

ccctttaggg caacactcag ttctgcaaac ccattagggt ttttggagaa agttttcgac 300

tttctcggag aacagagcga ttttctcaag aaaccctccg cggaggacga gatcgtcgtc 360

gcggttaggg cggcgaagga gaagttgaaa aaggctgaga agaagaaagc tganaaggaa 420

attttgaacc ccgtgganaa naanncnaag aaggaaattg ttaacctgtt gnaa 474

<210> 3062
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-H10

<400> 3062

ggcgntcggt agcgcgcaaa aatcccgggg ccncccaagc ntncgnaana aacctncttt 60

cnanacaana caaaactata tataaagatc atacatgtaa taacgtcctg caactattac 120

aatcattctc gctttgaatt aacgtggacg tcattgtttt tggattgtta atcaaaggcg 180

gcgttacttt tttttaatat aattgtttct ttaggatctt tgtctctgga aaatgaagga 240

agacgcagga aacccttttgc atctcacgtc actgaaccat gtctctgtct tgtgccgatc 300

cgtcgacgaa tctatgaatt tttaccaaaa ggtgttaggg ttcatcccga tacgaagacc 360

tgaatcctta aattttgaag gcgcttggtt gtttggtcac gggattggga atacacctcc 420

ctgtgtgccc cagaaccaga gaaacttcca aagaaaactg cgantaatcc caanggttaa 480

cacatctctt c 491

<210> 3063
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-012-Q1-E1-H12

<400> 3063

gcaaagactt aagtaagtca aacagaaaaa aatggatctc ttattgatta tagccggttt 60

agtagcggct gcagccttct ttttcctccg tagcacgacc aagaaatctc tccggttacc 120

tccgggacca aaaggtcttc ctattatagg aaaccttcac cagatggaga aattcaaccc 180

ccaacacttc cttttccgtc tctccaagct atacggcccg attttcacga tgaaaatcgg 240

tggccgtcgc ctcgcggtga tctcctcggc cgagctagcc aaggagctac tcaaaactca 300

agacctcaac ttcaccgctc gtcctctctt gaaagggcaa caaaccatgt cgtatcaagg 360

gcgtgagctt ggtttcggac agtacaccgc gtactaaccg ttagatgagg aagatgtgta 420

tggggaaact cctcagcccg aaccgtgt 448

<210> 3064
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-H3

<400> 3064

ggnctttttc actcccacac gttctgctcc agcgatactg tgagagaatc tctgtgtggt 60

tctgaattct taggctggaa ttgaattctg aaatggcgga ggagtacaag gaagcgttgt 120

tggagaagca gaactatcac gacggatgtc ccggctgtaa ngtggagcag atgaagcagc 180

tccggcgagg atatccttac ctcgagcttt ccttcgtttg ggattatccg tcctctccaa 240

cttctctaac aatttcctca actcctatcc cttcctccta actaatatga attganggat 300

tttggtgtcc caaananggn gaaaganant gggttttaag ctggttttgt tggttgcncc 360

tttatgcntg ggaaaacact gaattcngtg ttccggggaa ntgtggctga ttgttaaggn 420

agaaaaccca ttatactcct gggaactatc tcaattgc 458

<210> 3065

<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-H4

<400> 3065

nnttgtttaa gtaggtanga ttcaaggcca tgacaacaga atatcaacct agctagtttg 60

atatattctg atgaaattag tttgcctagc nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnct aatttaantt 240

tggtgaagtg angccttaat ggtttgaagc cttgacaaga tngagagtan caaaaagaaa 300

ccatggatgc ctttgacgta atatnatgat tagaaagggt cactcnatat gttaaaanac 360

caaagacctg gaaaccggtt taaaattggn ttttggnntt ggttccggca aantcnagcn 420

cttgaatgtn aatncctacc ttttttanggt cccctta 457

<210> 3066
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-H8

<400> 3066

gnaagagtct tgcttcagtt gaatcaaaga ttggtccttt ttttttcgtt ttctctttcc 60

tgctttttt tgtttgtagt ttctgatctc tcaggaaggc tttttataaa tttgccctca 120

atttctccgt ccctactact ctttttgatc aatttctacg ggaaaaagca ccaatcttta 180

aacccgggca tgtccttgta atcgagtatg ttgtgtaagt gatgaatttg tggtgagatc 240

tggtgagaag tttcctcttt tttctcanat tgcggtaaaa aaaaagagtt tttaataagg 300

aagagattga gattagattt tatcgctttt gtttgtgtga tatgggtaac gtgaacgcga 360

gagaagaagc gaatagtaac aacgcttctg ctgttgaaga cgaagacgct gagattgttc 420

tcgtgaagct atgtctgctg cn 442

<210> 3067

<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-A11

<400> 3067

gccaaaccct aataatctag tggcaagtac aaccttctac tctgaaagta caggagccat 60

tctctgtttg gcaagaatag aaacagaccc agcggacaga acccaattgc gaatgacagt 120

aggcacggga gatcctaccc ttacatttga gttgaaagaa tttatcaagg aacaactaat 180

tactgtccca atgggatctc gagctttagt tccagcagca ggtccagcac cacctgtagc 240

tcaaccgcca agcccagcgg ctttagctga tgatccagga gctatgctcg ctggcttact 300

ttaaattcat tgggccttcg tgttgagaga gtctaatcta agtcataacg gggggaaatt 360

gcaaaaacac atcccaaacg catagcattt cacttgtaaa aacctgaact aatttgangt 420

gatatattct agaga 435

<210> 3068
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-A4

<400> 3068

ctgtctngct tgcccgtgcc gtccanaatc aagggnccnc ccacgcgtcc ggnaataaaa 60

gaaaagtgag tttgntgntt gtatcgatna naaaatggng acgtcgatga tacagaggat 120

gttcaagcaa gggacgaaga tcgtctgcgt cggccgtaac tacgccgctc angccaaaga 180

actaggcaac gccgtcccca aggaaccagt tatattcttg aagccaacat catcatactt 240

agaaaatgga ggaacaattg agatnccaca tcctttggat tcacttcacc atgaagtaga 300

actcgcttta gtgattggac agaaagctag agatgtacct gaatcaatag ccatggatta 360

cattggagga tatgccgttg ctcctgatat gactgctaag gaactccaag cttctgctaa 420

agnatctggg tctcccaagg gccggttgcg aaangncaag ataccntcaa tccctaacan 480

ctcctgttct gccaaaaggn gatggtgcct tattccca 518

<210> 3069
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-A5

<400> 3069

ggaattaaga gagcaaaatg agcataaata ggaatctgtt gaatatcata ataatccttt 60

gtatatgtct caatttgggt tgtaacgatg gagctcaaga aagagagact gattctcata 120

ctatccaagt cagctctctc ctcccttcat catcatcatc ttgtgttctt tctcccagag 180

cgtctactac aaagtcttca ctgcacgtga cgcatagaca cggcacgtgt tcgcgtctaa 240

acaatggcaa ggccacgagt ccagaccatg tcgagatcct aagactcgac caggctcgcg 300

taaactcaat ccactcaaaa ctatcgaaga aactcgcaac aagattaacg tcagttgaaa 360

agcaagntca acgggattct aaccgggcta aaagacngga agcacactcc gggttcaagg 420

taactacatc cgttgacggt ccnggcctcc ggggacaaca aaggaacgat tntaa 475

<210> 3070
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-A6

<400> 3070

ggctttcttc accattcagg atcagagatt cgtgacctga gaagacactc aatatgagta 60

agcttcagag tgaggctgtt agagaagcca taacgactat caagggaaaa tctgaggaga 120

agaagcgtaa ctttgttgag acagtggagc ttcagattgg tctgaagaac tatgacccac 180

aaaaggataa gcgtttcagt ggatctgtga agctcccaca tattcctcgc ccaaaaatga 240

agatctgtat gcttggagat gctcagcatg ttgaggaggc agagaaaatg ggacttagta 300

acatggatgt tgaggctttg aaaaagctta acaagaacaa gaagccttgt taagaaanct 360

tgctaaagtc ctaacaagcc ttccttggnn ttctgagtcc gtcaattaan caaantcctc 420

ctccttcctt ggncccggtc cttaacaaag gnaaggaaa 459

<210> 3071
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-A7

<400> 3071

gatgaacatc ccatcgaaga agatcgtacc ggtaccgaca ccgagtgaga aagttgtctc 60

tttggtatct cgaaccggac gagatctcca acgttacaac accgcagggt atcgtcaagt 120

cgtcggatgt gtaccatata gatacaagaa acacggagga ggagaaattg aagtgctttt 180

gataagtgca cagaagaaag ggaaaggaat gttattacca aaaggaggtt gggagattga 240

tgaatcaata gaagaagctg ctttaagaga gacaattgaa gaagctggtg ttacgggtca 300

gcttgaagaa tcacttggga aatggcaata canaagcaaa agacatacta tgaatccatg 360

atggtcaata atgtttccct tgccttggta atcagcaatt tgagataagg gcctgaatcc 420

tgaantcaag acaacgcaaa 440

<210> 3072
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-A8

<400> 3072

gctttctctc tatctctctc tatctctctc atttcttcct gcgtcaatgg cgactcaagg 60

tcaggttatc acttgcaaag ctgcggtggc ttacgagccg aacaagcctc tggtcatcga 120

agatgtgcaa gtggctccac ctcaagctgg tgaggttcgg atcaagatcc tctacactgc 180

tctttgtcac accgacgctt acacttggag cggcaaggat cctgaaggtc tctttccttg 240

tattctaggt catgaggctg ctgggattgt tgagagtgtt ggtgaaggag taactgaagt 300

tcaagctgga gatcatgtta tcccttgtta tcaagctgan tgtcgtgaat gcaaagtttt 360

gcaaatctgg gaagactaac ctttgtggca aagntganat ntgcnactgg tgttgggaat 420

aangatgaat tgaccgtaan tcaaggttcc cgt 453

<210> 3073
<211> 517
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-B1

<400> 3073

gtgccgtcca gaanttcaag ggtccaccca cgcgtccgca gaaaacccta aacacagata 60

aaccccaaaa ctcaaaaacc aaatctttcc aacaatggcg tctcatctct ttacccgatc 120

tcgaatctct ctcctcaaaa ccctaaaacc caatcctttt acctcagctt cacccatcag 180

agccatttcc ggtacaccat tcctctctca agatcctctg ctcgcaaccg aatcaacaga 240

tcacgaccca tcaaaccatc aatcaacctc cacgccgctt ccaccgaatc cagcaacagg 300

aagtcctctt taccaagaga attggcgtag tccgattcca aacactcctt ccttcaaaca 360

aatctctagt ttcaattaag ggatttcnaa tcaaggctcc tggtcctcgt atcaagagct 420

ctctcctgga gaagccnttg anatngaaac tcgcctngct ngaataatgt ttgccggant 480

gggantgntt tcgcaancgg ttgggnccgg aaatgaa 517

<210> 3074
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-013-Q1-E1-B2

<400> 3074

cggntcagtg acttctgcaa accgtctaga cccatttttt gtttatctct ggacacagag 60

atcgcaaatt ctttttttctt aaatggaagg ttccatgaac aagcgaggat acgaatgcag 120

tcaagaggat actgacaagc tgccagaatc aaagagacaa aaagtgcctg ctttagcaag 180

tgttattgtg gaagctgtca aagtagatag tctgcagagg ctttgctcgt ctttggagcc 240

gttgtttcgc agaattgtta gcgaagaagt ggaacgagcc ttatcaaggt tgggaaacgc 300

aaagttaacc tcgangtcac caagaaccaa aagaggattc aagaccgcaa tggaagaaac 360

ctgcaacttc actttaggac ccaaatgctc ctcacttatc acaaggcggg aaanttnaag 420

gaaaaccaag ntccggaaat caagttggtc ctaaa 455

<210> 3075
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-G9

<400> 3075

aaaaatatct tcgttgaagt gagggtgacg agaagtttct gctttcatca attaaaggtt 60

tacgcgtgaa gcagatcatc agcaatggcg gcgtcgcaag ataagttgga taagatgaaa 120

cttaggcaag attaccggaa tttatggcac tccgatctca tgggcaccgt caccgccgac 180

actccctatt gctgcatctc gtgtctgtgt ggaccttgtg tgtcatacat gcttcggaga 240

agagcacttt acaatgacat gtcaaggtat acttgctgtg ctggatatat gccctgtagt 300

ggaaggtgtg gagaaagcaa atgtcctcaa cttttgcctt gccactgaag tcctcccttt 360

gcttccggna aactcctgtt ggnctccnac ccgcttcctt ctgcaaggat tgaaattcaa 420

caatccaaga ccaacaacaa atggcnaaca aatttgca 458

<210> 3076
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-F10

<400> 3076

atcccggggc cacccaagcc ttcngaaaag aatanaagac attcttcaga aatggagcga 60

tgttgacgaa atggatctca ttcttacact tggtggtact gggcttcact ccaagagatg 120

taacacctga agcaacgaaa aaggtgatcg agagagaaac acccggtctc ctctttgtta 180

tgatgcaaga gagcttaaag atcactccat ttgcgatgct ctcgcgctct gcggcaggaa 240

ttagaggctc aacattgata atcaacatgc ctggaaaccc aaacgcagtg gccgagtgta 300

tggaggctct gttacctgca ttgaaacacg cactgaagca gatcaaagga gacaagagag 360

agaaacatcc gaagcacata cctcacgcag aagccaccta ccgactgata catgggaaca 420

aaagctataa ntcaanccta tgagacgggg aganaaagaa ggaaaaggct gggtt 475

<210> 3077
<211> 496
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-F11

<400> 3077

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnactaa tcagcaccgt 120

ccatttttgt catctaattc tttcttactt ggccgcaact tccaaccaca tcacacactc 180

tttctattcc cttatatatt cccatctcaa aagttcttgn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnc gccaatcgca actttcttgt ctttcaatgg 300

gagagaaagg tttgaagcgg tctggtgttg cggtggtggt tgcattacta gccatggttc 360

atgtctctgt ttcagttccg ttcataatgc ttcatgggat ccaagctcaa tgttccaaat 420

gctaagggat gctaacttca acacaagctt ctcactaaac tcctctggnt ctcctggctt 480

tgcttaaaaa attgga 496

<210> 3078
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-F12

<400> 3078

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gccttcgaca ttgcacagct caatcctcac aaaaccttgt tctttgacga cagtacccgg 120

aacatccaaa ccgggaaagc cgttggtctc catacagtct tggttggtaa atcagagaaa 180

atagatggaa gcgattacgc gttagaaagc attcacaaca tgaaagaggc attccccgag 240

ttatggtcgg aatccattat caacaacaaa gaaactgaaa gaattgatta cgcttcacag 300

atctcgattg aaacttctgt tcaagcttaa ctttatttag tactaaatat gatgatattt 360

acatatcatt gaatgtttca ataaaatatc tatgtacctt tttttgtcgt ctatccatgt 420

accgtttatg ggttgattcc gtatttataa gtctataaat tgtattttaa tcaaccctcc 480

tttggtcata tcaataaat 499

<210> 3079
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-F5

<400> 3079

ganccggatc tttaatgtcc ccatcatcct cgtttcatcg gcttcagttg cagacgaggt 60

cttcaggatc cacgacatga acatctcctc tcgcggtgct gctgcgatcg angagtccct 120

cgtgtttgga tcttctggtg tcgtctacgc tccctatgga gattacttga agttcgtgaa 180

gaagatcatt gccactaagc tgcttcgacc tcaggtgttg gagcggtcac gaggtcttcg 240

tgctgaagag ctacaacgac tttacaacag aattcttgat aaggcgaaag atgaatgaga 300

acgttgagat nggtaaggaa gcgacgatgc tcaatgaaca acatcttctg taggatgaac 360

atgggaaagg agtttctcaa aagganaatg gtgaagcana nanaatcaaa ngctttggtg 420

gctgaatcat aagccttggn gaagaagatt t 451

<210> 3080
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-F7

<400> 3080

ccacgcggct acggtaccgg tattaattcc cggggcngct tcactctcca aatgcaaaga 60

gaggtctctg cgatttctgc aactcacccc tgaaaccttc ttaatttact tcaactgccg 120

ctatacctaa aaacttcatc tttctcctct gagctatgat aaggattgna gatttcactc 180

tcttcttctt tatcttcgtc ttctctccct cgttgcctct agctcaatct cagcttcccg 240

atctcgaccc acaagacaaa gcttctttat tgatattcag agtttcgatt cacganctaa 300

atcgaagctt atcgacatgg tacggctcat cgtgttctaa ctggacaggt ctaacttgtc 360

agaatcccga ccgggaaaag ttctctcctc aatttaatcc ggtcngaatc tctccagtca 420

agattcaacc aacnccttg 439

<210> 3081
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-F8

<400> 3081

gtaccggtan ttatttcccg ggtccnaccc acgcgtcana aacannnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnaaacca atcaggcaga 120

ggaggaaggt cgtttgatgg tggtcgatca nctangcngg aaaacagaca atcaacaaaa 180

cacttggaag agcgaccana gtggtggatc anactggaaa aaaggttggg gacaggattc 240

aaacaatagc aaaccatccg gttcgtctgc tggtggttgt gctggaaact ggcctacctg 300

ggatactaac tcaaagaaag aaaccaatga caaaccggga gacgatanca aatcagcttg 360

gggaaccagt aacgatnagg tgaataccga taacaacaat gacagttggn acaaaaagcc 420

aaacaatgat gtttggacan gtgg 444

<210> 3082
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-F9

<400> 3082

cttccttgcc nctcctaccg gtccacaaat cccgggtcca cccacgcgtc cgcaaatttc 60

taactaaagc attcatagtc tctcgaaagc ctcttttcag aaccgaagct ctttactttc 120

gtccaccggg aaatatgcca gtcgacgtag cctcaccggc cggaaaaacc gtctgcgtca 180

ccggagctgg tggatacatc gcttcttgga ttgttaagat acttctcgag agaggttaca 240

cagtcaaagg aaccgtacgg aatccagatg atccgaagaa cacacatttg agagaactag 300

aaggaggaaa ggagagactg attctgtgca aagcagatct tcaggactac gaggctctta 360

aggcggcgat tgatggttgc gacggcgtct ttcacacggn ttctcctgtc accgacgatt 420

cggaacaaaa tggtggaacc gggcgtgaat ggancaantt gtaataaagc tgccgctgag 480

gcaagtca 488

<210> 3083
<211> 552
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-G1

<400> 3083

gggggnggaa cttcctgccg nacntaccgg tccaanattc ccgggtcnnc ccacgcgtcc 60

ganatccttt ttatttctcc ctttactttt tttataatcg caaaaacaaa tttcaatagt 120

tcttgtaagc gcaacgtgta agtagagaca tacacacatt tgtagtgttt tgtnntgtat 180

aataacatca tcgcatatag agaaaagaag ttaagacgac cgtatatatc gttttgaaaa 240

ccgggtcgga taaaaaaaaa ccggtttctt taaccgagtc ggcgcgcatg gagctatgca 300

atcaaaacaa tcacatcacc gccgtctcgg gcgattccgt tgaactggga acccgacggg 360

ccgaaacctt tgaaaanggg acccacctgg gaatgaangg tgaaaccgaa tgggtgaaaa 420

gaatntaagg aaanaagggc ggttgaaatt ttaaggaagg tgaaaacctt ngaccaaatg 480

gggcaaagtt acccnccgtt gggctaaaaa ggaaggaagg aaggatttta acngggtgga 540

acctaaaccg ga 552

<210> 3084
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-G10

<400> 3084

ctanggtcca caatcccggg gccncccang cntncgnana cgcctngggc cctncngtcn 60

gangnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnntctcatc gatcactctc tccaagatct antcacgcat cgtcgggaag aattttcgct 180

tccgacgacg tttctctcgt ctgattttgt ctccgaacat cctacctaat cgtattcggt 240

gctggatttg aatccggtga actgaatctg acaatttcgt tcccggaggt gtttaaaaat 300

ggccgggatc ttgaataaat tgcggaatct agatgcatat cctaagatca atgaagattt 360

ttacagccgt acattatccg gcggagttat cactctcctc tcctccgttg ttaagttccn 420

tctcttcttc tcccgagctc cgtcttancc tcatacagtc accgagacga agcttatagt 480

a 481

<210> 3085
<211> 488
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-G11

<400> 3085

gcctgcncct accggtccan aantcccggg tcnacccacg cgtccggaga aagagcttga 60

agttgaaact ttgcttaagg cttctgctta cattttagga gccactggtt cgagtataat 120

gtacaagact gttcttgagg acggtacggt tctcgcggtt cgtcggttag gtgagaatgg 180

tttgagtcaa caacgccggt ttaaagactt tgaggcacat attcgagcta ttggtaaatt 240

ggttcacccg aatttggtac gtcttcgtgg attctattgg ggcaccgacg agaaattggt 300

catttacgat tttgttccta acggcagtct cgtcaacgcc cgttacagga aaggagggtc 360

ttcgccgtgc catttaccgt gggagactcg gctcaagata gtaaaanggt tggctcgtgg 420

gcttgcctaa ctccacgaca aagaaacatt tgcacggtaa cttnaaacct aataacataa 480

cccttggg 488

<210> 3086
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-G2

<400> 3086

ggtgggngga attccctgcn ggncntaccg gtctnanatc ccgggtccac ccacgcgtcc 60

gaacacgcgt ccggccaatt ttagaaaact tctgacggaa aataaaaaga gaggatttat 120

ttttatcttt ctgtgttacc ggagaataaa gacggtacct tttcactgtt gangtaangg 180

ngaagatggc gactgttccg gagataaaga taatganaag cgagagctta ggtcatcgga 240

gtgacgtgtc gagcccggaa gctaagctag ggatgcgtgt ggaanatcct gggatganca 300

gaaaccacag ctcagtccta acgataagct caacgcttgc tttgaaaagc atccctgtcc 360

cctgctttcc ctctctcctc ctgttcacaa gataatgaga taagatttag acacaagttt 420

ggctgaanct gttcanacac tntcgaaatt caaggncctg aangcgcctg ttgtagatgt 480

tgatgcgcct gaanatgcca atttggattg 510

<210> 3087
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-G5

<400> 3087

gancacgcgt ccgaaaaatc cggtttactt atggactcta ccgatatttc acgctaacgg 60

ctggagctat ccatggggaa tcgccgccgt cggaggaact aacgtctgtt tgcgtaaatt 120

cgacgcgccg ttaatctacc gtttgatccg tgatcacggc gtcacacaca tgtgtggagc 180

tccggtagtg ctcaacatgt tgtcggcgac taacgaattt cagccgttaa atcgtcctgt 240

caacatctta accgccggtg ctccgcctcc agcaaccgta ctcctccgag caagaatcaa 300

ttggattccg tgataaagtc acggatacgg gttaacggga aaccgccggg attaaaacgt 360

gtcaatgcgc cttggaaacc acaattggaa tcgtttaacg ggcgaagcga tngaaccaag 420

gtnaaaacac ggnaaaggag tganaaacgt cggatttac 459

<210> 3088
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-G7

<400> 3088

gatttcttct gctttcatgg atgcttcaaa tcccaattct tctagaaaat ctaatgtctc 60

ttccttcgct cagtccagtc gaagcggtgg tagaggagga ggatatgaga gagataacga 120

tcgacggaga cctcagggtc gtggcgacgg tggaggcgga aaggatagaa tcgatgcact 180

tggacgactc ttgacgagaa tattgcgaca tatggctact gagctgagat tgaacatgag 240

aggtgatggt tttgttaaag ttgaagattt acttaacctg aatttgaaac ttctgcaaat 300

attcagttaa agtcacacac gaatgatgaa attaaagang ntgttanaaa ggacaataag 360

caacggttta ntcccatcga tgaaaatgga gaactcctga ttcccgccaa acaaaggcaa 420

tcgattacga nggttgagtc aaaagaa 447

<210> 3089
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-E9

<400> 3089

ccggacntac cggtccacga atcccggggt cnacccacgc gtccgnaant ctctgtcttc 60

gtctccnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnngaa ataaaaaatg gctcacanta ggactttcac ttccagaaac 180

cgtagcgttt ctctctcaaa cccatctttc tccattgacg gatttgacaa ctcaactgtg 240

actttaggct acacgggtcc tcttcgaacc cagagaataa gacctccttt agtgcaaatg 300

agtggtccta ttcactctac tcgcagaaca gaacctctct tctctccttc tcctcaagaa 360

tctcctgatt cctctctaac gttgatgttc aacctgaaga tgattcgtcc tcaaaaacgc 420

aatccccttg agatcgggaa attagggagt gaatgttcta acnga 465

<210> 3090
<211> 591
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-E7

<400> 3090

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cggcgcgctc tatatcgcgt taactcatna gggccctctc nccttcnacg ttacttcttg 120

cccgattccg tcggatgnga ttccatcgac cattctacga agacttccat agagagaggc 180

catacgccta ttataatant agatgggaaa ccgcaagaga taccaaggag aagtctcttc 240

ccgncgtcgc cgatcatgag tangagacgg aaattctana gattagtcnc cntactgaga 300

agaatcacga accatttgac gggtaagcta ctatgaccgg cgtcgacaga cctanacgtt 360

tanaactccg ccntatttct gaccgcggga acggaagtcg tcggaactta tgagatattc 420

acnatctaac tacgaacgcg acgcggacac taaggaagga ctcgcttggn aataccgggt 480

tctaacggcg gnattttcac cgcctctaag gaccgtcgan tgcccgagtt aaagaaaact 540

ataatntccg nttaagttan tacggaaaaa ccaaaggttg ccgtntttat t 591

<210> 3091
<211> 665
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-E9

<400> 3091

gctgactcct cctcgattcc ttcttctcaa actgactgca ctcttccttc tttcttctgc 60

tnnctgaaaa ttagggttta gggtttttga ttttcgttct ctattagttt ctccccctca 120

ctctcatggc gatgaatttt caatttatgt gagattttat tccacaatcg gaataatttt 180

cctggcaatg gcgacgacca atgctccacc tgagctagct tcaggaaacc cttgctgcct 240

cgcttggcaa gggaagtaca taggaatgaa gaagaggcga gatgctttta aagaaggagt 300

aactcttctc cagaaggcta tagaaaatgt taatgctgaa aaatccaatc tcgagagaaa 360

atttggggag atggcgactg acggagatac taaggaaaat ggttcaactg tgaaagcatc 420

tttggagaaa gaaatatctc gtttgaagtt tgagatagtg tctttgcaac aaaaactgga 480

gcggaacctt aaagaaaaaa gtgaagaaac aaagcttctt caggatcaag cttctggtcg 540

agaaaaggag atcaatgaac tgagggatct ccttaagaaa gaaacattaa gggcagatag 600

ttctgaagaa gaaanggaca tgctttaagg actgacaagg caaagctctg atagtaaaag 660

atgag 665

<210> 3092
<211> 706
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-F10

<400> 3092

accggtccat attcccgggn cttcccacgc gtccgcnaac gcgtccgttg atccgtcgtc 60

ttctctcagc tctccatctc cgtcttccaa gttttactgt caggtagaag aatccatgtc 120

gatttacgtc gcgtcgcgac ggctctccgg cggaacaact gtgacggcgc tgcgttatgc 180

cacctctctg agatcttatt cgacctcgtt tagggaggag agggacacct tcgggccgat 240

tcaagttcct tccgataaat tgtggggagc ccagacgcag agatcgctgc agaacttcga 300

aatcggtggt gagcgcgagc gaatgcctga accaattgtc cgcgcttttg gcgtcttgaa 360

gaaatgcgct gccaaggtta acatggaata cggtcttgat ccgacgattg ggaaagcaat 420

tatgcaagct gctcaggaag tagctgaggg aaagctcaat gatcatttcc cccttgttgt 480

ctggcaaact ggtagtggga ctcagagtaa tatgaatgct aatgaggtca ttgctaatag 540

agcagctgag attcttggtc gcaaacgtgg tgagaaatgt gtgcacccaa atgaccatgt 600

gaaccagatc acaatcttct aacgacactt tttcctaccg tcatgcacat tgcannntgc 660

naccgagatt aatcgaggct taatccctag tttaaaaact ttgctt 706

<210> 3093
<211> 687
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-F3

<400> 3093

aggggagnna ggacttcccg nccgaaaacc cggtcngccc agcgtccgnc aaacctttct 60

ccanaatagt aggtttgntg angccaatga gggtgttaaa nnaaaggggg gaacangaat 120

cgcaccagac atattttgct acaattccct tataattggc ctttcaaaag ctaaaagaaa 180

tggacgaagc aaggtctttt ctggttgaaa tggtcgagaa cggattaaag cctaatgctt 240

tcacctatgg ggcttttatc agtggatata tagaggcaag tggaatttgc atctgcagat 300

aagtatgtgg aaagagatgc gggaatgtgg cgtacttcca aataangttc tttgcacggg 360

tttgatcaat gagtattgca aaaaggggaa agtaatagag gcgtgttcag catatagatc 420

catggttgga ccaanggatc ctgggggatg ctaaaacata cactgttctt atgaatggtc 480

tttttaaaaa tgataaagta gatgatgccc gaggagattt tccgcgaaat gcgtggggaa 540

ggtattgcac ctgatgtatt ctcttatggg gtctcattaa tgggatttct aagtggggaa 600

atatgccaaa agcttctaat atttttgatg aaanggttga aaaaaggttg actncctaag 660

gttatcatat tccaaaatgt taccttg 687

<210> 3094
<211> 695
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-F5

<400> 3094

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gtagtggaca tcgatgcgtn aaactgcctg ctcgaacggg gcacaggggt ggaaagatca 120

actgattact cagcagtcgg cctttcttga agccctttct aggacagtcg gagtctggat 180

gtgagcctca ctgggcaaag ttaacgacca gaggtaccgg gggtgtaatg tttctgattc 240

acctctaaat cccaaacagg caggatgcgc tggtcgtccc gccgagttgc tatatggaac 300

tgagagtctt aagcgggtta cccccggcaa gtagaatcgg tgacgtggga cgaattggaa 360

gttgggccat ggcgtttaat cgtgtgtcaa ttcagaattt ataaagggcg ccggctgacc 420

aagatagtag gatggcggct acggaagctg aaacttgtca aggagcgcgc aataatctat 480

tcgttgaact aatcattttg aaaacggacg gtgtcccaag tgtgtgattc acatttggtt 540

gctggggtaa gaatttaggt tccgacgagc anggaaggtt gtggtggctg tccgtaaaaa 600

ttcaaggtgt tgagttttgg gttggaattg ggttgctggc gttaaactcc cggcgggcag 660

cagttaaacn ccttaaacga gaattcccgn aaggt 695

<210> 3095
<211> 679
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-F7

<400> 3095

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gttacgggat ccccggctag gccgtcaaac gtcgggcctt cgagataaat agtcccgccg 120

tcgcaaaagc aacaaaaaat tagtccgtac atcactagta ggtaccggcc gaagcactca 180

ccccgataat gtcaaataag aagcacgact tcgaggacaa gaattacact gcctgtacac 240

atgatcatcc tccatactaa agctacccgc gtacacgtcc cgaatcctca gatacgaact 300

cgcacgagtc tacaaagaca aactaaccta gaggttcact accaagtaca gctaagtctc 360

ctctcaagta gactccatcc ggcccggtct ccccgaaaga cgtcggtaca acttaccgcg 420

actcgaagtt agagaacacc tcctcgcgtg ttagcgcgaa gttaatcgaa accaagacaa 480

ccgatcccgg actagtgcgt acggaagaca aaatcggcca ctacacacct agagctgnca 540

tcatagactg gttggaagct ccatccnggc atttaacnta tccttagnca cccgatacgc 600

gggttccccg gtcggancgg cggttnaatt cggccntccg gaaccggtta tccncccntt 660

aggagggcta aaaacccgg 679

<210> 3096
<211> 626
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-F8

<400> 3096

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cnntatggac taaataaacc actcgagagc attgaccggc aagactcgag tcccatgtca 120

cgaacncncc nanacntgct cctatggang attcaccact tcttagaaat tgaacttgaa 180

cttgacctat tgnaaatata gtnaagagta cgaatactta gagtaagaat acttanagta 240

actcgaactc natgatcatn gcggacggag tcctggcggc tcgacgaaaa tctcagttat 300

tagacttgaa cttgcgaccg aaattcattg atgagactct gaagaacccg gtataggccc 360

gaagaaagag actgaggcgg tctacggact gtccggcatg gcgggatacg tgaccgacga 420

gtccgggaat atggcgtcaa aaggcatggt cgagaccacc gtctaaggca aggaatgacc 480

ccagttgtcg gcaacgaact cgacctcctc gacaataaca ccagctanag ccccggctgc 540

tgngacagtc ctagcctgaa attacacagc tgccctgacg tctanaactn cgtcgctaag 600

gagactccaa tatccatcgc gaagag 626

<210> 3097
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-F9

<400> 3097

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tggagcaatt ggtggtaaat tcggatcccc tcttttaaac ttaccggaag ttgcaatcat 120

cgctcttgga agaatcgaga aagttccaaa attctcaaaa gaaggaactg tctatcctgc 180

atcgataatg atggttaaca ttgctgcgga tcatagagtt ctagatgggg caacggtagc 240

tcggttttgc tgccagtgga aagagtatgt cgagaaaccg gagctgctga tgcttcaaat 300

gagataagaa ggaaaggttc atgtttattt gtgaatcatt atgtatgaaa ccttcatgtt 360

cgaataagat caagaactga gctagcaaaa aannannana anaaaaa 407

<210> 3098
<211> 692
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-G1

<400> 3098

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ttccctacaa ttccgcaaat taccaagagg tcccgtctaa ccataagaaa gaagaaaaaa 120

cgtccgctga tgggaaatct gctcgtgcta ttggagttgg tggtcatacc gtcctccgga 180

ctgccaagcc atctccagag agaggtcata ttgccagagg aattgcaagg aatttaatcg 240

actttaagaa taattactct agagagtcct aaggagttaa ggaaagatct atctcctata 300

gcgtagactc ctctgatcat gaagtctctc gcgttataac tgatggccgt gacggtgccc 360

cttatatcgt tctcttgacg attgatgact ttgagataac gccggagttg gtggcgaatg 420

gagttaagcc tgcgaccgat gtagtggtca aagttaaggc taagtgtgcg gcccctatgc 480

tactaaccgg cgtagcccat acgaatttca attgcgatat ctaagttacc gccgatgaaa 540

atcgtcggaa cgactccgac cctcgtaaaa atatcaagaa ccggnaccgt cattggaaga 600

cgccggtgga ataactggta cgggaaatgg gtaaagtaaa angcgcggat ccagcggcgt 660

caaacttggc ccgggctccg gataatggcc ta 692

<210> 3099
<211> 652
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-E6

<400> 3099

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aaacctctgg ntcggaactc gcatatgccg cgcctgatga accgacctag agagtcctcc 120

cccgtaccgt cctctttaat agtattattg tcccgttctg gctcgccttg gcattggtgt 180

tggccgccct cctcgacgag accttcccta agctaaagga aaccactctg tgcgatgaca 240

tgcccgcgaa gaaagtcaaa ctcctgcccc acagcgacgg gccgccagtc ttcagcaagt 300

tttaggcctc ggacctaata tcctactagg tcaagaatgc cgtaggtaac gacggggaga 360

agccgagctc tacaaaatcc gtcagcccga ccgaggcact cgttaagaaa gtcatctaag 420

atcaaacccg tagtataggt cgacggacta gtctgaacgg tccttggacc tctcaggtaa 480

gccactgagc tccgctaggt cagactcgct cgagaaccgc actacggcat cattggtaat 540

tacaggaggg tccaccctcc cgatgaggtc cgacccgtac ctgaacagaa ccggctaatc 600

tttcgagctc acaggagacc cgtcaatccg gctaattcga actccancgg aa 652

<210> 3100
<211> 679
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-D11

<400> 3100

gctgnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnct ctgtagaaga agcacatgaa 60

tnggtctggt tttatgatag ctttctctta agaagaagaa gaagaaagat aaattaaaag 120

ggtggttctg agttttaagg attattgttt gannnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnntt atctgattgc tctaatgaat atgagaagct cgttgttcgg 240

atgaacatgc ccagggtcgt aattgacaat ggagtttgcc ctaattcaac tgtcgtcaag 300

attgatagtg caagaagccc aggaatattg cttgaatctg tacaacttct cactgatatg 360

aatctctgga tcaaaaaagc ttacatttcc tctgatggaa aatggaatat ggatgttttt 420

catgtgagcg atcttaacgg agacaaatta accgacgaga acctaatccg ttacattgaa 480

aagtctattg aaaccgtctc attactgtaa aacggaaggg tatacgggtt taacccgctc 540

tagagttaac ccggaaccag accagagtcc ggtttactct caaaaggttt tccccggntc 600

tagctgatcc ttgnatggtg atggtggttg aagcttaagg catggacccc ntaacgggca 660

gggattgcct ccnatgaat 679

<210> 3101
<211> 643
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-D3

<400> 3101

gaacaatatc aatgtctttc agatcatgcc atctcgttca cataatgcac ctggtgacct 60

aagttatgag tgggaatctt ctcatgtgca tctcttcaaa ctgcatagag ggatcacttc 120

agctattgtc caggacattt gctttagtca gcagagtcag tgggttgcta ttatttcatc 180

caagggtact tgccatatat ttgttttaaa ctcttctggt agcgacgctg cgtttcaacc 240

ttgcgagggt gaggagccta cccgactacc agcttcatcc ttgccatggt ggtttactca 300

atcgttgtca agtaatcagc agtctttatc gccaccaaca agctgttgcc ctttctgttg 360

taagcagaat aaagtatagc agttttgggt ggcttaacac agtaagcaat gctactactg 420

ctgctactgg aaaagttttt gtaccatcan gtgcccgtgg ctgctgtttt tcataaatct 480

gtcactcatg acccttttaac tgaactnccg gactaacgcn ttggagcata tcttagtcta 540

tactncatca ggccatgtgg gngcancatt gaacttntgc cattaagttt ggcncagaat 600

tnaccctgga aaatgggttt ngaaaagtgc aaaaaaacat tcc 643

<210> 3102
<211> 662
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-D5

<400> 3102

actnggtccg aacttgggtg nttagtgctt ggggagtcct gttggngnct acatgctgct 60

gctgctccca gcactcgcac tgctaaggan gccgncgaag ctccctacng acgccggtct 120

agatctgtat cctttcactt agaactcttt ccacggcgct cctaaattgg aactgaatct 180

aatcttctgc ttcgttgctg tcactggtga cccggcctcg gattctcttg tcactctcga 240

agtcgggtcc cctgacggct cgacttccaa ggatgtagac cgtccctcct agttcaaccc 300

gaacaagcct ccggttacgg gatggttcgt gcggaaggaa gtgtgcctca tgtcgtaaag 360

aactccgcta ctcaacgaat tcactccgtg agataacgac gccccgagga gaaaactacc 420

ttactagacg agcaaagcgg aaacgaccgc cttcacggcg accggggatc acatagatcc 480

tcccgtactc acgtactatg tgaagaatcg tggatccacg ccttgcgggt tcganaacgt 540

gacaatttaa accggccctt gtcctttacg tacactacgg atnggtacta ctcacggtac 600

tctccgggat cgataccacc tganttaana ggtagggtta cntatangga aatccccgat 660

ta 662

<210> 3103
<211> 684
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-D6

<400> 3103

cncttggctt ggaacctttg ggctgnttnt gtgcttgnta tatattaaaa aaaatntnag 60

attccaaaaa aacaaaaacg gccgacacgg accggaagag gaagacggca ctactagacc 120

cattaaatct attcaagtcc ctcctaaagt cctatgcaat caccttacta ttgcctaaaa 180

ctgctttcgc cctactcttg actctacgcc tagtattcgt ctcccgtctc gtccatgagt 240

cccattcctg ctctttcgag tcaagaaagt ctcggctact ctgcgacccc ttctaacgga 300

tactagagtt gacctctaaa ttagtctcct aagtcccgga gactagccct agaccagccc 360

ctgttgcccg cctcgacatc agattgcata ctaattattg cgaacggaat tggaggtcag 420

acctctctac tatgaagtag acttagtccg cagtagtgac tcgtgaagac gaagaagaag 480

aaggcacact agtggagtct tggctggtgg cggatggagc ctgccgagcc cggcatttgt 540

antcagtcat gcggaagaga ctanangtcc cggggaaaga agatncacac cttgactgac 600

attgaagacg gaactngcgc nagcatattg tccnggatct gggggaatta aaataccggt 660

tnggaaaatt taaacncctt ggct 684

<210> 3104
<211> 710
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-D8

<400> 3104

ccaccgncac cgggggggggg gngaagcagc tctggcttgg aanctttggg ctgnnttatg 60

tgcttgtgta gtcggcgnaa catagtctta gggacattgt gctccggagc cttggtgctg 120

aacgnngggc tanaagtccc atatggngca gttcatgttg gcttaggaac ttggcccaat 180

ggaatggcca aagtcgtcat tagtcccttc taagctactc cgattgtcgt cctacctgat 240

cttcacgaac ggccttgtac cgtctaagcc acaggaaagg aagtaagagg agcgcataat 300

gtagggtaag tgaacggaac gataccccgg gtattaaata ccaatacacc cagagactta 360

tggcggggaa gaggttaaga aatctttggt gaggacttga cgacgattgg aatccatgtg 420

gcggtccatg ccagaggatc ataaggcgat ctccccgatg gctggaaaat atctcttaac 480

tactcttaag ttcntgtccg ccgcaagtac cccatagtgc atgactccga ctgccggaag 540

ggcaccatct gtcatgctcc taacgtctaa gcgagcccgg tcgatccggt ggagatgcat 600

taattattgc ctaagaaacg tacagaagaa ggctgattag cggtactacg cgcgtccaca 660

ttgagctaat ggtaccttcc tccgtgtcga tttgaactcc ccgatctgaa 710

<210> 3105
<211> 731
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-D9

<400> 3105

cgcaaggntc gacggtgggg catttctgag gaaatacaga ggaaaacgag tcatgttcgt 60

cggngactca ctgagtttaa acatgtggga atcgttggcc tgtatgatcc atgcgtcggt 120

accaaacgcc aagaccactt ttctcaagcg taccccactc tctactctca ctttccagga 180

atatggagta acgttatatc tatatagaac accatacata gtagatatat ccaaagagag 240

agttgggcgt gtgcttaacc ttggagctat tgaaggaggt gctgatgctt ggaaaaacat 300

ggacgttctt gtcttcaact cttggcattg gtggactcac aaaggccaat ctcaagggtg 360

ggattatatt agagatgggt cgtctttggt gagagacatg aaccgtcttg acgctttcta 420

caaaggactc agtacttggg ctcgatgggt tgatcaaaac gtcgataccg gncaaaactc 480

gagttttctt tccaaggcat ttcttccact tcattaccaa ggggaaaggg gaatnggaac 540

cgagccccan ggnaagaact ttgtaantgg gggccaaaat ggcaancccc ntttggggtt 600

ggggaatcca aaggtttanc ccccaaagtg gggtccaaan ccctttccaa ttcccnttaa 660

agggaaattn nntggggncc caaaaaaggg gggtttngaa antttccnn attggnaaaa 720

aaaaaggccc c 731

<210> 3106
<211> 690
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-011-Q1-K1-E1

<400> 3106

aactctttnc agtttccacc ggtccaaaat tcccgggtnn acccacgcgt ncgagccctt 60

tctcttttct ctctctctct atatattgct aaacaaaacc ctacttattc taaaaatgga 120

agccacgatc ttcgagaaaa gaagaagctc gttatcaagc atagcggtgc acaaacagtc 180

atactcgata accaaatcaa agccaaagat ccgtataatt cacatatttg ctccggagat 240

catcaagacc gacgttgcca acttccgtga gctcgtccaa agcctcaccg gcaaaccaga 300

cgaccagaga acttccaagg caaaacctag aagagatatg catcgtcttc atcgtcaagt 360

ccaagacatg atcaacacgg agaaactaag agaacccgag cattgtgatc aagagttctg 420

cttaaacgca gaagagctct cgatgacttg gaacggtaat aatggcgctg gtgaaagctc 480

tggagggttc ttgaatggtt tgggagattt cgaagggttt attcaagaac ttggtgaatt 540

tccttatttg cccttgtcct tccattgatg cttctgcttc ttctaacttc tcttcttnct 600

ctcatttaca tggtggatca agttttctca agatcaattc gcttaacttg ggcttnttaa 660

aaggatgtgt acctttttca tcttttttatt 690

<210> 3107
<211> 700
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-E10

<400> 3107

gctnaataat tctccggggc ttnnccancc gctccgaatc cgcccctgnn gcntattatg 60

agtcanttgn tcccccttnnt tgntaaacnt ccanaggggg gattctaaac ctttntcant 120

tctcctggtg gtctcttcan tgcaccatgg ctatttacga tgtggttcag cttgtgagag 180

ctgatgtttc gacgattgct cttggcattg ctgcatcaac agcttcgatt attcttggtg 240

cgggaactaa aggcaagcgc tttgctatgc ccaacacgag gataatgatt catcaacctc 300

ttggaggtgc aagcggtcaa gctatagatg ttgagattca agctaaggaa gttatgcata 360

acangaacaa tgtcaccagc attatcgcgg gatgtactag tcgatcgttt gagcaggttc 420

tgaaagatat tgatagggac cggtacatgt ctccaattga agcagttgag tatggtttaa 480

ttgatggagt tattgatgga gacagcatta ttcctcttga acctgttcct gatagagtga 540

aacccgagag taaactacga ggagattagc aaggatccca tgaaattctt ggcttccgag 600

atcctgatga tgagactact aaagcccaac tcgtctagaa gcnnggatct tcaaatgggg 660

cttanactag ccgttccagg aaaactcaat ttcttctgcg 700

<210> 3108
<211> 683
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-E5

<400> 3108

gcagcttggt tngaactttg ggctgnttng tgcttgtcct ntcatgatct cacggtaagc 60

acaaagtcaa ggccccgccg ctcgtgcccg acgnatgcta nggataagaa gacggacatc 120

acgccgccgc cggagggacc atcttcatct tctccggaga aggtaagagc atcattatcg 180

cccggatccc gttaagttcc aggtgtccat tctgacaaga aggccgccat ccgctcctgt 240

taattgctat aaggatttat tcccggaact aaaggaggcg tagtcggcgg cgggcacagc 300

taggcgacct tcacggacga gcctaactcc tactctatcg gagacaccta tgtgaccatt 360

gtccttaata attctccatc gtcgtaactg atatctggac cccttacgag atgctctaac 420

ttgataaggt ctcccccaac aggtcgcgtt tcttgaacaa agaagggaag tgcagcccta 480

gcgataccac gcctangaga ccgataaagt cccgggacac ttaanantag cttcgaggag 540

tccatcnttg aggagacaaa gaagcccgtt angtccggac accganttтc gtcctcacta 600

tcccggaaga anaacggacg gacggcnaag gactggctnc cgaggaagaa catcaccggc 660

tagggntcga aggaaaaggg gac 683

<210> 3109
<211> 610
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-D1

<400> 3109

ccagtttnca ccggtccgaa attcccgggc ttcttcttat tttatcatag ctaagctcaa 60

aaacaatcga tagatggaga agaagaagag catgttcgtt gaacagagct tcccggagca 120

tgaaattggc gatactaaca aaaactttga cgaggatggc cgcgacaaaa gaactgggac 180

atggatgacc gggagtgcac acataataac ggccgtgata gggtcgggag tgttgtcttt 240

ggcgtgggca atcgcacaac ttggatgggt ggcaggaccc gccgtactaa tggctttttc 300

tttcataaca tattttacat caaccatgct tgccgattgt taccgttccc ctgaccctgt 360

taccggcaaa cgcaactaca cctacatgga agttgtcccg atcctatcta ggaggaagaa 420

aagtgcaatt atgtggattg gctcaatacg ggaatctgat tgggataaca atcggnttcc 480

caatcacagc ttnaattagc atggtggcag tgaaaaagtc naattggttc cccaaaatgg 540

gcataatggt aaatgggccc ctttaaacac ttcctttatg ancatatttg gaatcttcca 600

antattctta 610

<210> 3110
<211> 659
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B8

<400> 3110

cgtnagcacc ttggcttgga ancttgggc tgcnttatgt gcttgtcgag cgaaaaagtc 60

cactgtggtg accagccttt ggtgaagaag aagaagagag acnggaaaac ggtgatcaac 120

ggactcgtca gtctagtgta gtctctctag aaggaagtcg acgctaggac gacgcgcgtt 180

gtcgaggcct actccggaat taagaaccgt aaccattaga cggagtgcca tgctcctaag 240

agatgtaatg acggcaccca tactcctaat tccggtaaaa tacgggaaaa gtcttagacg 300

gtcgtcagag ccaccgccgt taccgagaat ttataggata ctactgctta gctagtcagg 360

tttcacggat agagagtcgc gccgaagccc gtctagcata tcggagttaa cgttaccgtc 420

ggaagatata tcttcggcat tcctattaac tagacgtaga tacttcctag cgaattaagg 480

tcgccgacct ccatcggttt aagaatcgat tattattcac taaggaaggc gtcccgggaa 540

ataccttaac taccgnccct cgcgattana tctcctaacg agaaccggcg gtaccggcac 600

ttantaatat tagggaaagt atataccggg cgtcccctcg gtcctcggtc tgtacggnt 659

<210> 3111
<211> 660
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B9

<400> 3111

ttcttgctct cgatgggaaa gctccaacat ggatctcatg agtgcgagtt gacctcgcgg 60

gggatcgtcg caaacgggat ctgcaacatc tgcttcaaag atgaacctgt tgaattcgcc 120

tgtgaccctt gcaatttcga tctctgcaaa gcttgctcag atcttcccca gaaaatgtca 180

caccatcttc atccggagca ccctctagaa tttcgtatag gcgaagatga tcagaagact 240

aaacacatgg tgtgcgtcgt gtgcggaaac atgtcttctg gagccaaata ctattacgag 300

tgtagcaagt gtgagatcta cctcgatttg ggctgtgcac ttcagaagaa catagcgacg 360

agttgggaag ccaaagaaat gctccattac agccatgaac acttacttaa aaggtgtagg 420

ccaggaccag attccaaaga ctcttgcctt ctctgtgagc aacctctctc cttcactgca 480

atatgttacg gttgcgttca ttggtacttg ntttttcacg agcgttgcct tgatctacca 540

acccgagatt caacatccgt gcattctatg caccctntna aacgccttaa ttatatcaaa 600

cttttgacng tgagaaatct tgtaatgcct gtcacgggca atttgtggtg tccatttggt 660

<210> 3112
<211> 610
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-C1

<400> 3112

tggttgnacc tttgggctgn ttatgtgctt gcgtcctccg aagagcttta gagccctaaa 60

gctataagta ctagtctctc gtacttccga gaagaagatt cacaatataa gcccgaacag 120

caagactatc ccaccatact cacggacttc gagatccaca gggtagcggc cacgggcaag 180

gcctaagagc ccgaaaaggc cacggaggag aacgaaacct tcgcctccga ctaggctatc 240

ccctagggga acatgacctc gtactccgta gtcacccacg gctacgatta ttcagcgtgg 300

tgcacttccg ttcacgagtc aaatacctcc agaaaccgga aatgcggtcc aaaccgtaat 360

cctgctttaa gccctctcta ccactagatc tccccggcga gatgaaatca taagggagat 420

tccgtctctt acgcantaat cgtcgtagga tataagccga cagccggttc ctccaccgac 480

cgttcaaagt aagcccttgt aagacacaat cacggggaac ggactanaat aaacggcaaa 540

ccggaaatac ccctagaagc cctnattacg gagggnactc ggaccggatc cccttcgnaa 600

gggaaatttc 610

<210> 3113
<211> 666
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-C10

<400> 3113

gcgtttgttc ccaaatcatc aaaccctaat tttctgttaa tttcaattag cttagttcgt 60

cgggctccag agaagtcgaa atgatgggct cagagaatgc cgatggattc gaagaaacta 120

atctcaatgc gcaaagggat gatatggaga atctcgacct aggagtagat ggtggtgacc 180

atcctctgaa gataagcgat gtcaacggtg atacatcgaa ctctggttac cgtagcgcca 240

tgtcaacact ctncaacgtc cgtgacccgc tctcgccgcc accgaccgtt atgattccag 300

ctgattctga tccactcctt gcgccatcct cctacgaaga tttccgcagc agcttcagct 360

ctaagccgat cagcagcgat aactcctaca tcgagcctcc gtcgtatgca gatgttatct 420

tcagtccctt tgatgagaac tcagatagcg agattaacgg taccgaggat aatagccttc 480

atagtcaatt ctcagattca ctatcgagat ctcttcttct tcaagctctg attacatcaa 540

gatcactgna tctaaccctn agaaagagca ggagatttca aattccattg gtggaggaaa 600

cacttacatt acctaccaaa ttcgaccaga acgaatttcc tgcttttggc gggccatcgg 660

agttta 666

<210> 3114
<211> 718
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-C5

<400> 3114

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ctcgtgtagt agtcaaattc taatgcggaa gtagcacccg ttttacnacg aaatctaaaa 120

agagcggaaa ctatatcccg gtaaaagacg ggaaataccc gtatagagga aataagttca 180

tgatttctca gtgacctcag tattcggtta aagaacacct taaaagataa taggaaaacc 240

actctttact taatctgtaa agctaaaggt aataggaagc ttctaaaggc attaccatgt 300

actaacatcg ttgaaattca gaatcgcaca aaagcccttc gcgcttgctt ccgcaattgt 360

ctaggtcagg tagtaagaaa gcgaaaaacc tccctccccc cgccctcccc ggcgaataat 420

aaaccccata gctcgaaata gaccgggata accgcacagg actcttacaa aaacttcatg 480

tagcgctacc aaaaaaaaaa aaaaaaaagg gtggntgtct canaggactt aagtccatgc 540

atgtgcgtac cgttgaaggt ncaatccccc ccacaggggt attcnaacct aaccnatccg 600

ggttgcngnc cccattaatg cnnnngatcc ggggaaaaat tttcgggtgc ccattttaat 660

cccaaactgt tcccggnagn aatacctttt tnccccngtt taanccgggt gcaaacaa 718

<210> 3115
<211> 661
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-C6

<400> 3115

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ctctcttgca ataaaanggg ggttaacggt aaaatancan tctcccgcat cttctctaac 120

tcttcactct ccactatcgg agtctatggt ggttattgta gttctataga ttggagtcct 180

taaaaaagtt acaaatccta cttaactcct ccgtaaaatt attatacatt tcgttccacg 240

cgcttatcta tctcttgctc atgtaaatga tacttaaata agtttcaaat gcccagtcga 300

gattgtcaca gttgcgatat caagttgagt ttaacttatg aagtctcctg ctctgtgctc 360

aatatgcacg aagggctcca agaagtgtga ggctgaagtt actaaagacc gtgctgagga 420

gacgaatgac attgccgatt gcccgattaa actcgcctaa gatcgaagcc gcgcgggagc 480

gttaaagact aagattagcc cgtgcattat acgagcaacg tctagatccg gatcancgtg 540

gtcccgatcg atgagaatat ccgtcttgac gggcctctgg gctgggccac ggacgggagg 600

actaagaatc tggcctgggt cagactacga atgcgggata cgaaattagt atgtccccgc 660

t 661

<210> 3116
<211> 636
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-C7

<400> 3116

ccngggccct agagatggtc gacccctata cttataaagc acggtgatct aaactagggg 60

ggaanagaaa gcccgcagtg gacggcgcac ctcatgtcga accgaacgag gcctctataa 120

gagagtcagt anaggacggc catctcggcg ccgaggccag ggccatctta acgaggatcg 180

agaccactac tagagtcatc tgcatctana acgcctccgg cgagaagggg aggagaacca 240

gggaaccgat actctccgct tagaagagac ctaagcctta gccgatagcg ccgagtctca 300

cgtcgagaag gccaataata gaggctctcg cgttaccgtc tantcgagct ctcatgccat 360

aagtcctctg gcggctccgt cgcctgtagg gttcgccacg gcgccccgag acccgccacg 420

gagagcggag tcaanggacg cgaggctact gcgagcggaa agtcntgcgt cgtatgcgtc 480

aagcttacga agcctaagga cggncattcg ggcctactcg gctaatttat ccaaggaaca 540

tactgacgtc nancgaaata cgccccgtct anatangggg cgccgggaac taaggcgaaa 600

ntacttccga tcgggattnc ctggtaaact aggatt 636

<210> 3117
<211> 663
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-C8

<400> 3117

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ttgcgactgc ggcttaagag gttgcggaag atgcggaggt tgcgttctgg aagaaatgaa 180

acgggcctta gcgattaatc aggctgctca gcggtcgata acaaaacaat gaagtcagag 240

tagactcact cctacctctc tttagcaaag gagcattaaa ctacagacta ctccgccggc 300

ttcatgccga aagatgaggc cacgaagact acgttcgcct acaaataaat tanagtcggc 360

taaaggatca gacctaaggt tcccgccgcc gccggcgacg gaaacggcta cgccggcccg 420

ggcgctaagc gcctcaagga agccgtcatc gttaccagag gagtcaccac ctccgtcaag 480

tcactaacgg ccntngcgaa gagaggccac cgggggaaca agaccgggaa attatatatc 540

cgcgttcccg caaggccatc ggcaaacgcg ggctccgcat ccgngaanaa cggncntccg 600

tccttnaaaa ggcctccggc accggncgtc gtccanggcc cttcaaanaa ggcctcccta 660

aac 663

<210> 3118
<211> 673
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-B7

<400> 3118

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aagtctcatc tgaccctcta taacttgtta cgaatctata agtccgctcc tcctcctaga 120

aatagtccaa agactcccgc aagtacttcg cagacggacc tctcgtcggc ccagccgacg 180

agaagaacac acctgaacgg agtgcaatca ccaccggatt cttcgacatc tctcacgaag 240

gaggaccccc tcacgttacc acgctacctt tataaaatca cttcaacagt ttattcatgg 300

cgtggcccat cctagacacc cggtacttca atgcccactt tgacggttgt gcccgcacac 360

tcacctcata cttcttcggc gacgacttaa gcggacacga gtccgtaagc gagtgccgga 420

tgttcgccta tatagccgag agcactacgc cgagcaccac actaacgtct ctcggcttta 480

atgatgaact cttagtaaat gccgaggtcg tcaaagaacg gagagagaag agagacgagc 540

ctaagaagaa agcgagttgc cgcgctagaa agctctaaga aacggcccga ctaaagaata 600

tccctatatc ntatattact cctcacggag cctaaaagtc tacccactcc actgaaaaaa 660

accttcccgg aaa 673

<210> 3119
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-D5

<400> 3119

ccggtcacgg tntcccgggt cnacccacgc gtccggncat tgtttgtggt tgggctcctc 60

aagttgaaat cctagcccat aaagctgtgg gaggattcgt atctcattgt ggttggaact 120

cgatattgga gagtttgggt ttcggcgttc caatcgccac gtggccgatg tacgcggaac 180

aacaactaaa cgcgttcacg atggtgaagg agcttggttt agccttggag atgcggttgg 240

attacgtgtc ggaagatgga gatatagtga aagctgatga gatcgcagga accgttanat 300

ctttaatgga cggtgtggat gtgccgaaga gtaaagtgaa ggagattgct gaggcgggaa 360

aagaagctgt ggacggtgga tcttcgtttc ttgcggttaa aagattcatc ggtgacttga 420

tcgacggcgt ttcataagta antanaaatg cgtcattttc atgtaattgg gcatgtggcn 480

acaa 484

<210> 3120
<211> 353
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-E1

<400> 3120

gcntccggtc cgcaggcacn gggtnggccc acccgtcggc caaaacgtcn gatcncttct 60

ttgtcaacat gaaaacatcc aaaaagaaat cgaaacaaaa aacaaaagaa aattaggatt 120

ggacaatgga gctttcaaat ttggcaaaag caggattgtt ttaaattatt ttaatattgg 180

gttaacgtct ttttttgttt gtttccctct attagctaag ttttggttta gactttagat 240

cgaattgtgg agtttttagt ttttgacttt gtttacatca gcttttgttt nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngg gcg 353

<210> 3121
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-E10

<400> 3121

ggtcgaccca ngcgtccgaa aatggatcag ttcaaaggtg agcctcgtct acccaagttc 60

gccgtcccca agcgctacga tctccgcctc aatcccgatc tcatcgcctg caccttcact 120

ggaactgtag ccatcgatct cgacatagtc gccgatactc gtttcatcgt tctcaacgca 180

gctgatctct ccgtcaacga tgcctccgtt tccttcactc ctccttcctc ctctaaggcg 240

cttgcagctc caaaagttgt cttgtttgag gaggatgaga ttctcgtgct tgagtttggt 300

gagattcttc cccatggagt gggagttctg aaacttggtt tcaatgggag tactaaatga 360

caaaatgaag ggattctaca gaagtactta tgaacataac ggtgagaaga anatatgggc 420

anttacccat tttgaacaan ccggatgcta ggaaatgctt tcaangt 467

<210> 3122
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-E3

<400> 3122

ctggngtncg cggtccgagt ancccgggtn gnccccacgc gtcngcaaaa aaacacatcg 60

anantanaga tactacaaag tatacgacaa cttctttttt tgtttgtagt aataattata 120

gccaaaaata gacaaacaaa atggagagaa agcctcttga acttgngtcg acggataacc 180

accagaatcc ttcctccgcc gtatacggtg gctctgttac ggcggttgac tctgttgaag 240

aagatgttca gaatcagaag aaagtcgttt atagaggctg gaaagtcatg ccctttatta 300

ttggaaatga gacatttgag aagcttggga tcattggaac actatcaaac cttctggttt 360

atttaactgc agtcttcaac ctgaagagta ntacagctgc aaccatcatt aacgccttta 420

gtggcacaat taatttcgga actttcgttg ctgcttttct ctgtgacact tacttcggtc 480

gatacaagac tctaantgt 499

<210> 3123
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-E4

<400> 3123

naaagaaggc aggaaggtga agcagccaat ttaatttcga tggatgttga tgagccaact 60

actaaagtga agggtaaatc aaaagttggt gagccggaga aagcagaact tgggtctgaa 120

aaatctgaag aattggccag ggtaactttt attttgaagt tgttgagtga tattgttctc 180

atgtacctac atggtaccag tgtcatactg agacgggata cagaaatatc tcaacttcga 240

gggtccaatc tacctgatga ttcacctgga aatggagggt taatttacca tgtcattcat 300

cgattgcttc ctatatctct cgaaaagttt gttggacctg aagaatggaa ggagaaactg 360

tctgaaaagg cgtcctggtt tccnggttgt tttgtgcagt ccttccaatg aanggcgtaa 420

aagaataatc aatgagct 438

<210> 3124
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-E5

<400> 3124

tncgaatcat cagaaaatgg atttcgagct tagatcagcg aaagagaagc ttgaaagaga 60

gcagagagag aggaagcaaa gagcgaaact gaaactcgaa cgcgagaaga aatcanagga 120

agctgcgatt aagcaacgcg aagccattga agctgctcaa agagctagaa gacttgacgc 180

catcgaagcc cagattaagg ctgatcaaca tatgcaagag agtttagtat ctggagatgg 240

aatagtgttt gaacgagtct tccaagctgt ttcttttcaa ggaaatggag ataagattaa 300

actaccacca tcatgtttta ctgagttgtc tgatcaagga gctttcgata aaggtccttt 360

gtattttgag ctctctgttg ttgaccatcc ggataatann nagacaacac attctggtgt 420

tcntgagttt atgctga 437

<210> 3125
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-E9

<400> 3125

tgcttcatcc aaggtcttga agatgggtat aaaagtttca tcaaagatca aaagaattct 60

cgcatccaca gcttcaggta gttcaaatcc caaagatggt gctgacgtgg atgtccgaga 120

ggaatatgca aacgcctttc gtacggaatc atacaatcac ttttggacac gtgtcgtaca 180

gctaagccgc aaaaagtccg cagtgtcttc ttcttcttct tctccaccaa tcgaatcatc 240

ctccacgtca gctcgtctca tgtcttatcg cctattcgcg cacaatcttc tagacccgga 300

tctgaatacc attactcgga tactanatgt atcccgggtc gggcnaaaca cccgaaactc 360

ttcncncnga ttacttcttg gaaacggnaa angctttctt gctttgcacg cantta 416

<210> 3126
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-F1

<400> 3126

accgggtcga cccagccttc ggccaaancg tccgcggacg cgtgggcaag aagatatgtt 60

gcagcagcag attttacagc agttgatcca gcgtcaggac cccacgggga ggaatccgca 120

gatgcaagct ttgcttcagc agcagagact gaggcaacat cagcagatgc ttcaatccat 180

gtcaccctct cagagactcc aacttcagca acagcagcag ctgagacagc agttacagca 240

acaaggaacc caacagattc ctcctaatgt acgtccttat gaagttggcg tctgtgctcg 300

gaaattgatg atgtacttgt atcatctgca gcaacggcct gctgaaaatt gcattaccta 360

ttggaggaaa tttgtggcag aatacttttc acctcgtgca aagcagagat tgtgcttgtc 420

acaagtacaa aagtgctggg caccatgcgc ttggcatgtt cccanaggc 469

<210> 3127
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-F12

<400> 3127

gaggtatttg tgtttggatc ctttacagaa catgaaacta ggtcattttt tgagcagaaa 60

cccactaagg atcctcagaa ttctaaagac aagtgtgtgg gaagtattca atttggctcc 120

ttgaatcttg ctgcggaaaa ttcttcagta aatactaatg gcgagttgaa gaaaggtgag 180

gctgatggga cagttaaatc tgctgggtct caagagagac ttgatgcttc tagacctgcc 240

agctcggata agaacaatga tagtgatgca aaactcccaa gaaagaactc tttgagagtt 300

ccagagcatg tggtacaaaa tggaatcata aangagatct ctgaaagcaa caaatctctc 360

aacaatggtg tggcggtgaa aacaaatccn attggtttgg anaacttgcc aagtcca 417

<210> 3128
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-F3

<400> 3128

tgtatcncgg tccgaggcac cgggtcgacc cacgcgtccg gacaaatcta aaggtgcaaa 60

gcaaacgctt ctagagcggc catggttcct cgctgtggct ctagctggtc ttataggtgg 120

cgcaatgctc atcacaagct tcatccgagc tacggacaan accttgtcac tctgctccac 180

ggctaagaac acagctgcgt ctatagccaa atacacagcc accccaatcc aactccaatc 240

catcgtccac tacgccactt cacacaccgt ccctcaacaa tctttcgagg agatctcgat 300

ctctttaaac gtcctcaagg agcgtctccc ttgtaacttt ctagtctttg gcctcggccg 360

cgactccctc atgtgggcct ccctcaatcc aggtggcaca actgtgttct tggaagagga 420

tnctgantgg atagaggccg tcctcaagga cgccncatcc ctcaagggcc aacatgttca 480

a 481

<210> 3129
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-F6

<400> 3129

gccgcagnct accggtcata gatcccgggg anccaacttt cgaagaagac gactaatcaa 60

ttcatctgat tatggagaga ctacagagaa tcttcggagc tggtggcggt ttaggtcacg 120

catcgcctga ttctccgact ctcgatacat cggagcaggt ttacatctct tctctcgctc 180

tcctcaagat gcttaagcac ggaagagctg gtgttcctat ggaagtcatg ggattgatgc 240

ttggagagtt tgtggatgaa tacactgtta gggttgtgga tgtttttgcg atgcctcaga 300

gtggtactgg tgttagtgtt gaagctgttg atcatgtntt ccagactaat atgctcgaca 360

tgcttaacca gancggaaga ccttgagatg ggtgggttgg gttgngtatc attcacatcc 420

tggatcggct gctggcttct ggggttgaca ttaatactca ncanngtttt naagctttga 480

tcanggaact g 491

<210> 3130
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-010-Q1-E1-F7

<400> 3130

ttttagctac ggtcagcttt tctctagcgt cggggcctcg atctcttgat ttgagctttt 60

cttaggtctg tctctctctg tacactctct ccgccgtcgt atctcgccgt cgatttcaat 120

ttttccgacg atatgaagct caccgttaaa actctcaagg gcagtcattt tgaaattagg 180

gttttaccct ccgatacgat aatggcggtg aagaagaata tagaagattc acaaggaaaa 240

gacaattatc catgtgggca gcaattgttg attcacaatg gaaaagtttt gaaagatgaa 300

actagcctgg tggagaacaa agttacggag gaaggatttc tcgtcgttat gcttagcaag 360

agcaaatctg gaggttcagc tgggtcaggc ttcggttcag acttcttctg tttcacaacc 420

tgtttccgct accacatctt cgactaa 447

<210> 3131
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-F9

<400> 3131

ctccgatcgt tggcctcctg tttccgtttt actcgacatc gttccgacga cttttgacct 60

ggaatcgacg cagtgacttc aattcaacta ttgcacttgg tttgttggca atggacaaag 120

gagcacctcc tagtattttt gtgaatgatg ggtcattcat ggaaagattc agacagcttc 180

aacaggagaa agataaagac aaggataagg ttgtccaagt tgaggattct aagccggtga 240

agattatatc aaatcccaaa cctgctgcta ataaaatttc cattggatta aagcccaatg 300

atgcccagaa gaaaggtggt aagcttgctt tcagcttgaa gcaaaagtct aagcttcttg 360

cacctcctgt gaancttggt acagaagaag atgaggatga tgaggatgtt aaacatgaac 420

aaggctttgg atccgtaaac c 441

<210> 3132
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-G10

<400> 3132

gngattgatg agtccaagag agcaagtctc ggaaagtgtt caagaatgct caagcgccat 60

ctcacggatt ctgaacttcg acaagtcatg aatgccgaga tcacctgcaa ggcgaatcaa 120

ttgccttcac gacttatcat tgtcaatgac aagcctttaa gtgaagatga gctttacacg 180

ttgcagacat gtccaaatcc acccaagaag ctaaaacccg gacactattg gtatgataag 240

gttgctggct actggggaaa gataggagag aaacctagtc agattataag tcctaacaac 300

agcataggag gatacatcag tgagaaagta agcaatggan acactgaaat ttatattaat 360

ggccgggaat aaccaagcca gantcacgat gctcaattgg gcgggggtga attttnaagg 420

aaacctcatt ttgggtccaa tcanatgg 448

<210> 3133
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-D4

<400> 3133

cgtctncctg cgccacggtc cgagnaccgg gtcgacccac gcgtccgttt aaancnaagc 60

aagnnnaaaa atgggnaatc cgganttnaa naaaannnga ancaatngag ntnnacctnc 120

gccaacgggt ncctggcaaa gttagtgaag acgacaagct tgttgagtat gatgctttgc 180

ttctagatcg gtttctcgat atcctccagg atttgcacgg tgaagatctc cgtgaaactg 240

ttcaagagct ttatgagcat tctgcagaat acgaagggaa gcatgaacct aagaagctag 300

aggagctagg gagtgtgcta acgagtttag atccaggaga ttccattgtt atcgctaaag 360

ctttctctca tatgcttaac ttagccaatt tggctgagga agtgcagatt gcttatcgcc 420

gtangatcaa gaagctgaag aaaggtgatt ttgttgatga gagctctgct actactgaat 480

ccgatcttga anaaact 497

<210> 3134
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-B6

<400> 3134

cgtgtntacc ggtccaggta tcccgggtng acccacgcgt ccgcntacct tcaataagta 60

actctacact gaatcaactc ctctgatttc tcgataaaaa tctagaggca agattcccca 120

cggaattaag gtttctttgt taacctctcc attgaagata tgggggaact aaacggagtc 180

atcattccga ctatagactt ggaagaggtt tctgataaga ttctgaatca gaaaatccgt 240

gaagccagtg agagatgggg atgtttcagg gtgataaacc atggagtttc attgtctttg 300

atggctgaga tgaagaagac tgttattgat ctctttcaac gtccatacga ggtgaaagtg 360

cgtaacaccg atgtgctcct agggagtggt tacagagctc canacgaaat caatccttac 420

tatgaagcat tangtctcta tganatggct tctcctcatg cngtcaata 469

<210> 3135
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-B9

<400> 3135

cacaattccc acagnccacc cngnccnccn aagcgtccga aaagatggtt ttgacaaaaa 60

ccgcaacgaa tgatgaatct gtctgcacca tgttcggatc tcgctatgtt cgcactacac 120

ttcccaagta tganattggt gagaattcga taccgaaaga cgctgcgtat cagatcataa 180

aacatgagct gatgcttgat ggtnacccaa ggcttancct agcttctttt gtgactacat 240

ggatggaacc agactgtgac anactcatca tggactcnat caataatgaa ctactttgat 300

atggatgatg taccctgtca caactganct ccaaagncga tgtgtaaaca ttataactcg 360

actgttcaat gcgccactcg angaatctga gacggcggtg ggagtaggga cagttggttc 420

ttcataagca tcatgttaac ccngattggc cttcaaaaga aatggctgag cna 473

<210> 3136
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C1

<400> 3136

anagaccggg tcggccccgc ctccgaacan anctcatcct cgtcaacctc ttcctctccc 60

gctgtcgcca agattgaatc ttttttcagt tgtggcttca ccggataata aggaattcag 120

taagagataa gttcatcctg acaacatgga gaccaagaat gagaattctg atgtttcacg 180

ggcagaggag tttaaaagtc aggccaacga agcttttaaa ggtcacaaat actccagtgc 240

tattgatcta tatacaaaag ctattgaact caacagcaac aacgctgtgt attgggcaaa 300

tcgtgcattt gctcacacaa aactggagga atatggcagt gcaatacang atgcatcgaa 360

ggccattgaa gttgattcaa gatactctaa nggctaatac aaggcttggt gctgcgtacc 420

ttgcaatggg aaaatttaag gttccttnaa gggcttcaac angtaaaa 468

<210> 3137
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C10

<400> 3137

gaagattctt ccggcagatt cagaacattc tgccatattt cagtgtattc aaggtttgcc 60

tgaaggcgct ctgcgcaaga taatcttgac tgcatctggt ggagctttta gggattggcc 120

tgtcgaaaag ctaaaggaag ttaaagtagc ggatgcgttg aagcatccaa actggaacat 180

gggaaagaaa atcactgtgg actctgctac gcttttcaac aagggtcttg aggtcattga 240

agcgcattat ttgtttggag ctgagtatga cgatatanag attgtcattc atccgcaaag 300

tatcatacat tccatgattg aaacacagga ttcacctgtg cttgctcaat tgggttggcc 360

tgatatncnt ttaccgattc tctanaccat gtcanggccc ganaaattcc ttgttctnaa 420

ttacttg 427

<210> 3138
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C3

<400> 3138

gtccgganaa ccgggtcgac ccacgcgtcc gcaaaaaacg aanacgatgg gttccatcga 60

agaagaagca agacctctca tcgaagaagg tttaatttta caggaagtga aattgtatgc 120

tgaagatggt tcagtggact ttaatggaaa cccaccattg aaggagaaaa caggaaactg 180

gaaagcttgt ccttttattc ttggtaatga atgttgtgag aggctagctt actatggtat 240

tgctgggaat ttaatcactt acctcaccac taagcttcac caaggaaatg tttctgctgc 300

tacaaacgtt accacatggc aagggacttg ttatctcact cctctcattg gagctgttct 360

ggctgatgct tactggggac gttactggac catcgcttgt ttctccggga tttatttcat 420

cgggatgtct gcgttaactc tttcagcttc agttcccggc attgaagcca ncggaatgta 480

ttggtg 486

<210> 3139
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C4

<400> 3139

ggaaaanggn nccctggcgg ccccccttccc ccaaaggttt ttcattacga gttcagttat 60

tgatctcact attgttggct tagaccttgt tgatggagac tcaagttccc agagccaact 120

tcaacaacaa ccacattacc tgaagacatg ttccaaacca aacctggatc tagggagtgt 180

ggtgtacctc ttaggctatg ccaatcagaa tgaactcaag atcggcgagg gaaagttagt 240

tgtagctacc gacaatctca tcaaactctc aactgatgaa atgatttgga gtcctgnatc 300

tgctggattt gatgttcaag ggaatcttgc attcatgatt tgtgatccga ggaaactatc 360

gacatcacca acctcaacct cgtcatcttc ctcntcctct ttgaagaaaa gattncaaca 420

angacactga tgatgcactt tgggtataca atac 454

<210> 3140
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C6

<400> 3140

cagactgagt agtcaccaag tgaatatgct tctttcatcc ctatggatcc aagcaacttc 60

taccgacaat acccctgaaa attttgaggc catggccagc acatatcaaa tcactttact 120

gttttcacta gcaaagagat caaatcacat ggctctggtg cagtgttttc agctggcatt 180

ctctcttcga aatctctcat tgaatcaaga tggaggtatg cagcactctc gtanaagatc 240

tatcttcact tttgcatcat atatgctcat tttcggtgcc aagatttcca atattctgga 300

gctagttcca attatcaaag aatctttaac tgcccaaatg gttgatcctt atcttgtgct 360

ggaaggagat atcagactgc gtgctgtatg ttctggattt ccacaggaag aaacgtatgg 420

atntgacaa 429

<210> 3141
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C7

<400> 3141

aaacactcgt aaaagagttc ttgaacttca caaaacaatt gtcagatttt caagaaaaac 60

tttataaaac aaaaaacann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn aactcggatc tacaaaaaac 180

catgtcggaa actaacacaa ccgatgccaa gactgttcca gcagaagcag agaagaagaa 240

agaacagagt ttaccattct ttaaactctt ttctttcgct gataaatttg attatctctt 300

aatgttcgtt ggttctcttg gtgccattgt tcatggntct tccatgcctg tctcctttta 360

ctcnttggtc aaatggttaa tggatttggt aaaaaccaaa tggatttaca tcaaatgggt 420

catgaagtcn caagatatcc ccaa 444

<210> 3142
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-C9

<400> 3142

ttacgttcca ggtcgaacgg tcagggttcc gggtccaccc angcgtccga acagtattgg 60

tctacgggtc ggccaccgta ttgattatta gattgcnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnngcaagct aacatggaat cattaaaagg aggtctacga agtatgacgt 240

gaagttgaag acggcgataa tattgaagat caacaattca gtagatggnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngatga 420

aaaaaaaaaa aaaaagggc 439

<210> 3143
<211> 588
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-D1

<400> 3143

gcgatctctc cggggntccc gnnnaatgna tgaacncgng ggntcgggnn ccccccngnc 60

ccgtnccggg ggttnaaaaa aaaattgggt ttncacccna angnanacca agggnctncn 120

aaaaccaaaa ggggccggga tttcaaacaa caatttggga ncctgggttg ggtcaaattg 180

ggaagcctca atcaccaaga actncgggct taaattgcta aattttaaat ccgaanggan 240

gggagggaaa ggggtgcatt agagtgggcc aagaaggggc acataagaac agcttgaaga 300

caaagctcat agaagcacaa atcgagagcc aaaaggttca gctgaagcat gtccttgagc 360

ataagatcta ggccacaaca tattccaaaa ctaccagtcc taggccattc tactaatctt 420

tgtggctgag cagcaagaac tggatttttg attccgttct cctgctattg ccattgtcgc 480

atgatctaac gctgggtcaa accaatcaac gtgggtatat tttcgttanc taaaagcaaa 540

atgatcttgt gaattgatta ctgtcatacn ttggtggggc taacttca 588

<210> 3144
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-D11

<400> 3144

gaagtaatgg cagcctcagg cacctctgct actttcagag cctccgtttc ttcagctcct 60

tcctcttctt cccaattgac ccatttgaaa tcacccttca aagctgtcaa atatacgcct 120

ctgccatcgt ctcgctccaa gtcatcatcc ttctccgtct cctgcaccat cgccaaggac 180

ncgcctgttc tcatggccgc cggatntgac ccggccctgt ggcaacgaan cgattcgttc 240

ggtcgtttgg gaagtttggt gngaaagtat gtacctgaaa acccttatgc acgctccaat 300

ctgagcttga tccgctttct atgctcttgc nacggacnat gatttcnana naganttggc 360

tggaatcttg aaggactatg tgggtanaga aatcctcngt attttgcaaa aaggttacgg 420

agcattacag gcncaaaatg g 441

<210> 3145
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-D12

<400> 3145

aattttcacg tttcttacat gtacatatat atagtaaaac aaatctctga agacacacaa 60

gagaatcaag aacaatgaaa aatttaacca gtttcgtaat tgttatctta ctacaaagct 120

tattgtttca tgtatatggt cgtcatcaaa gttcttcgaa gaacatttta gtagattcat 180

ctccatttcc ttctgatttc ctctttggta cagcttcttc cgcttaccag tatgaaggtg 240

cgttcttgac tgatgggaaa aagtttgaac aattgggatg tctttacgca taaaatcctg 300

ggaaaatact tgacaagaac aatgcagata gagctgtggg accaatataa tccgattttg 360

ggtaattcct aagataatta attcttcaat tttgtcctgn caactccttt acatatanat 420

cccatataa 429

<210> 3146
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-B5

<400> 3146

aaactaaagc tttcttcaat ggaagaagaa acccacgacg gatctctcga tctccaagag 60

attcgcaggc gcgtgaaaga gctcgatttc tttccccgga attgcagaga agagcctgta 120

gaatcgtgta gttccgatta cgagactctg gtggttcaag attttgttct tcagtttgaa 180

ccaaaggtga aagagattgt tgaagaatac ggcgatgttg atttattgga tgttgaagat 240

tcagatgctt acttggagta cttgagaaat gagcttcagt ctgtggaggc tgaaagtgcc 300

aaagtttctg aagaaattga acgtctttct cagtctcatg cccaagattc tagtangttg 360

caaagggatc ttgaaggtct tttactgtca ctgggattct atgtcatctc aggatgtgga 420

gaagtcaaaa gagaatcaac catctagcaa gctc 454

<210> 3147
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-H1

<400> 3147

cgcgtccgaa ttgntctcga ttctccgcga ccatgcaaat ttagggtctt cgttttgttt 60

gatgggcgcg aatatctcgg gaggttcacc ggagtttgac cggaacgatg acgtttactc 120

gaggaaactc agattggtgg atttacctga gaattgtgta gcgttgatta tgacacggct 180

tgatccacct gagatttgcc ggcttgctcg tctcaacagg atgttccgtc gcgcttcctc 240

agctgatttc atttgggaat caaagttgcc tgcgaattat cgtgttattg cacacaaggt 300

gttcgatgaa attactctga cgaaattaat aaagaaagat ttttatgcaa agcttaacca 360

gcctaaacct cctcgacgat ggnacaaaag gaattgtgga tagataagaa caacnggtcc 420

gcctttggtt aacccaattc ctcaaa 446

<210> 3148
<211> 534
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-H10

<400> 3148

ccaggcgtcc ganctctctn actctatctt tctctcttca ccatttcttt atcttccatg 60

gaagaacagt cttcaacaac aaactaaaaa catgtttcta aagttgtttc ttctcttatc 120

tttggtctcc ttctcacact cagactcttc ttccacagtt tcttgtccta acggcacaga 180

cttccatcaa ctaaccacag tttttcgtta cgtctccggt ttcaactctt cctggttctc 240

ctcaaactgc tccgccgtta tcactcacgt cgttcttccg tcaagaaaac taaacgggaa 300

cgttttcttg ggaaccctaa tacgtaatct caanggcgcc ttaagtggtt ccttggattc 360

tcctccaaaa naaactcctc ctccgaaagg ggttccnccn ttcccaaant tgggggtccc 420

gggncccaaa ggccaaaggt ccctgggtcc ncccggttta aatccncctc cncngggnaa 480

acgggggnttt ggggtggggn tcccaaaaaa ngaagtggga tttccaagtt ttaa 534

<210> 3149
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-H11

<400> 3149

gtacgcctcc anaattccaa ggtcnaccca ngcgtccgng tttttgnttc ttcttctttc 60

aaaatctcaa gcaaaagaaa aaatggagct attcacaaaa ggtaacaacg ttaagttacg 120

tagccaccta gataagtttt tagtcgccga cgatgaccaa gaaaccatcc gtcaaagccg 180

taaaggagat gcacggcgtg ccgtttggac ggtggagccc gtcgtcgata aacctaatct 240

gataaggtta aagagcagcc acggcacgta cttaacggcg agcaacaaac cgttattgtt 300

aggtatgacc ggtgagaaag tgactcaaac ggcgtcgttt aacaagctga tggattggca 360

aacgcantgg gaaccggacc aaaatggttt caggtgaacc taaatccttg ggnc 414

<210> 3150
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-H12

<400> 3150

ccaggcgtcc gnaaaaccaa attttgtcaa tctaatttat cttctcctct cccggagaag 60

aaggaaactt acaatttaca aagaacgagc ttcaataaaa atttccaaag aaattaccgt 120

cggcgaatcg ttaggctcga gaagaatcac caaattccaa ggggagagag actgaatttt 180

cttttgattc acgtaacaac aacgctcaga gactatgtcg tcggaggtga aacagctgat 240

cgtcgttgct gaaggcaccg ccgctttggg tccttattgg caaacatcgt ccccgactat 300

cccgagaaaa tcacaaggcc ttccggtgga attgagttta attggaaaaa ggaacccggt 360

tccaacggnt gaacnaacan cggggatntt caaatcccaa gggtcaaaat gtgcctgcct 420

gggnacaacg gantggctgg acnaaggang ttgataattt cctgcaatgg n 471

<210> 3151
<211> 521
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-H4

<400> 3151

ggtccccngg gcccccgccg ntcccgaaaa caacgacgtt ccgggaattc caatgcccgg 60

aattccggtt annagaacga acgaanggtt tcaagattcg ttccgtnggt nncttnacna 120

agggggaacg ttgaaagggc naaagtttgt tccanggttt tacccgttcg cnanatgggg 180

tgattcaaca atcgaagaag aaatccacga angggagaaa ggtgaatggg nacaaaccgt 240

gaacgttggg gattcagccg tcgaaagttg tgataacgaa gcttcgtctt gataaagata 300

ggaaatcgct tttggagagg aaggctaang gacgtgctgc tgctgataag gagaagggta 360

ctaagtttac gtctgaggga tgttatgcag aacgttgatt aagttaagaa aggaagaaga 420

aaatccttcn tgaaaagggt tttaaccttt ttagaagttt atccttcaaa tccgcctttt 480

taantttttcc aagttttggg taatttttgg naatgtttgt c 521

<210> 3152
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-H6

<400> 3152

ganccacgcg tccgcggacg cgtgggtgat gannnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnngctgta gctcatggtg gctatggcgg tggtcacggt ggcgacatgt accatccgat 120

gatgtacgct cggccttatc ctgcagttaa ttatgctcac cctccaccaa tgccgcctcc 180

tcactcggat tcttatactc atatgttcag cgatgagaat ccaggtagtt gtagtattat 240

gtgatcatct tttgtaatgt tatttagaat atggacatgt atgcttgtct tagtcttatg 300

ttttttttttt tggggatgtc cttatctttt ttactttgga ggattggnaa caaaatgtgc 360

nttaattttg tagtggaatg atgttaaaat atcccaattt cggaaaaaaa aaaaaaaaag 420

ggngg 425

<210> 3153
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-A1

<400> 3153

ttaaaaaacc ggtanaaagg ncccctttgaa ggataattag gcaaatgcna tcaggaaact 60

gtgaccccaa tggacctctc atgctcctaa cgttatccaa agaatgattc caagcctcct 120

gaacaaaggg gttanaattc tttgcctttc ggtccgtgtc tttgctgggt aaggttctac 180

tgggtatgaa ggtcagaatc atgggtccca actatatccc tggtgagaag aaggatctgt 240

acactaagag tgttcagagg actgtcattt ggatgggtaa gaggcaagag acagtggagg 300

atgtcccttg tggtaacact gttctatggt tgggctggat nagttcatca ccaagaatgc 360

tacattgact aatgagaagg aattgatgct cacccatcgt gcatgaattt tcgtgtccct 420

gttgtctgtt gcgtcatgta agtnctcgac tccaa 455

<210> 3154
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-A10

<400> 3154

tttagaaaca caaataaaag tttaattact tttaagccca acaaaaatgg gttatgctaa 60

atcagccatg ctgatcttct tactagcatt ggtcatcgca tcttgtgcca cggccatgga 120

catgtccgtt gtttcctcca acgataacca ccacgtgacc gccggtcccg gccgccgtca 180

gggtattttc gacgctgaag ccaccttgat gttcgagtca tggatggtca nacatgggaa 240

aagtgttaca actccgttgc tgaaaaagga acggcgttna actatttttg anggacaccc 300

nccgtttaan cacnaancgg ganngctgag aacctcantt accggcttgg tttgaatcgg 360

tttgcggatt aaccncncaa ggaatacggn aaaatttgcc atggggctgn tcaagaactc 420

caaggaacca cttcttcaga acaan 445

<210> 3155
<211> 397
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-A11

<400> 3155

gagaagaagc aaagcaaaat tcgatcgctc tgggtttttg atcttttagg gtttctggca 60

aatttggatg gaaacctcaa ctttatccaa agataatcat aaaggaagaa gctttcgttg 120

ttgtttccat tgttgcagct ccttcaaaaa ctcttgtctc tattgctttc acagctaaga 180

attctcgatt ccatcgttgt cgttttcgat tttgacgaaa ttgggttctt ctagatttgg 240

ttatggaccg tanagctcaa tcagatctct ctttaggatt cggtagctcc cacgctttac 300

ctctacctca ncctcctaga atcccaatcg ctgatgactc aatcacgctt canattgatt 360

ccagcttccg tccttcgtca atccnaagcc tcctgtc 397

<210> 3156
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-A2

<400> 3156

cacggtccca gaaccgggtn gcccacgcgt ccgcatanac gtagttggca tgattactcc 60

atggaactat ccgttattga tggctgtctg gaaagtcgct ccttcacttg ctgctgggtg 120

cacggctata ctgaaacctt cagagttggc ctccctgaca tgtttggagc tcgctgatat 180

ttgccgcgag gtgggtctac cacctggtgt tcttaatatt ctgactggtt taggaactga 240

agcaggtgct ccactggcat cgcatccaca tgttgacaag attgtattca ctggaagcac 300

aacaactgga agcagcatta tgacttccgc tgccaaattg gtgaaaccag tttccttgga 360

gcttgggggt aaaagcccta tcattgtctt tgatgatgtc gatattgata aagctgtgga 420

atggactatg tttggttgtt tctgggacga atgggcagat ttgtantgcc acatctcaac 480

ttc 483

<210> 3157
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-A6

<400> 3157

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agtcaactta ttgctcgtct ttgtatgaac attgtgaaac tatcggtcga acaatgcatg 120

ttgttaacct tgatcctgct gcggagatct tcaactatcc tgtggctatg gatatcagag 180

aacttatttc tttggaagat gtgatggagg atctaaagct tggtcctaat ggtgccctta 240

tgtattgcat ggagtatctt gaggatagct tacatgattg ggtggatgaa gaattggaga 300

actacaggga tgacgattac cttatctttg attgtccagg ccaagataga gctgtttaca 360

catgttcctg tgctcaagaa ctttgtggag catttgaagc agaanaactt caacgtctgt 420

gttgtttanc tgcttgattc ac 442

<210> 3158
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-B1

<400> 3158

nccaatttag ggttcctttc tcgaaanctg cggtttcnga atcancctat ctggttgang 60

ggtttcgttt gatatctggg agaaaagggg gtttctggga aacaanggag ttcataaatt 120

ccgcgattct tgggattcta tcgattcttc atttatatat aaaagcgtga aatgangatt 180

atgatggagt cgaaagggtg ggtaaaaaga agtccaagca gtagtagttc cttattttac 240

gaagctcccc tcgggttaca gcattgaaga cgttcgtcca aacggtggga atcaagaaat 300

tcaaatcttc tgtctactca aactgctcca agaagccatc ctgaagtacc aacgtgcacc 360

gatcttcata atataattat aagccttcct tacttccaag tttanaantt tcctcctttc 420

aaagc 425

<210> 3159
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-B11

<400> 3159

cgtccggttt cattcgcctc tcatctcttc gaccaacaat ccactnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnncaagctc cgccacagca gataccgata gaaactccga tcaatcagcc 180

tcttcctcag tcctctccgc ttccaattct cttctccgtg atacctccga cgaagcttca 240

gctgcaggac caagcgattg gaaaacagca naagcttatt gtaaaagtgg tgatacattt 300

gaaggtgaag ttcaaggntt taatggtggt ggcntactta atcgttttca atctcctgtg 360

ggttttcctc cttaaccaca attaagttct tcccgttcct gtaaagagcc tcaaaaaagt 420

natcaagaaa tagc 434

<210> 3160
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-010-Q1-E1-B12

<400> 3160

cattcttctt catcgtctct ctatttcttc tgtttccgtc accatccgcg tcagaatcca 60

ctactcagtt ttgtagtgca gggagagaga atggtgtggg atcttgtggg gtttcatcga 120

cgaggatttt gattaaagga ggtactgttg tcaatgcaca ccatcaagaa cttgctgatg 180

tttatgtgga aaatggtatt attgtcgctg tgcagccaaa cattaaggtt ggggatgaag 240

tcactgtcct cgatgctact ggaaagtttg tcatgccaag angaattgac ccccacacgc 300

aactcgccat ggaanttaag ggtaccgana ctaatgatga nttcctcant tggtcaaggc 360

ancggcaatt acctggtgga acaactatgc ataaaaaact ttgttaaacc tgtcaatggg 420

aaaccng 427

<210> 3161
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-G7

<400> 3161

gcatttttct caatggcgtc gactacacga gaaaagtttg tatctttcat aaacaacaga 60

tggctcgtct tcgtggctgc catgtggata cagtcttgtg ctggcatcgg ttatttgttc 120

ggaagcattt ctccggttat caaaagctcc ttaaactata atcagaagga gctttccaga 180

cttggagtcg ccaaggatct cggtgatagt gtcggattca tcgccggtac tctctctgag 240

atcttgcctc tttgggccgc tcttcttgtt ggcgccgttc agaacctcat cggttacgga 300

tgggtttggc ttatcgtcac cggtcgagcc ccgattctcc tctatgggct atgtgtgttc 360

catattcttg ggaaaatggc gagacctact naatactgga g 401

<210> 3162
<211> 340
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-F5

<400> 3162

ggtaccggag nggaattccn gggncgaccc acgcgtcnaa ncttcttttg cccgatattc 60

aaatataaaa atgcttaaac agttaggctc acgannnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn ncagccaaat tggttcaaaa agaaaaccaa ataggcnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnacatag agccccaaag tgtaaatgct cttttctgtt 300

aaaataatta ttatgtccta aaaaaaaaaa aaaaagggcg 340

<210> 3163
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G1

<400> 3163

nataacatta accatcttcg tagcaacttt actctcaatc ggttttcttc taagcatagt 60

tctgatcttc tctaccgttt tcagtgttgg aaagagaaag gaaaaggaat ggngagactt 120

ccacaagtga aagtaaaaga gggggaagaa agattgataa atgaagaagt ggtgaatgtt 180

acattaagaa gaagtttgag attctactca atacttcaat cacaagatgg tttttggcct 240

ggtgattatg gtggcccttt gtttctcttg cctgctctgg tgatcggctt atatgtgacg 300

gaagttttgg atggaacttt aactgcgcaa catcaaatcg aagattcgtc gttatctcta 360

taaccatcag aacaaggatg gaggatgggg actacacgta naagggaata gcaccatgtt 420

ttgtcaatgc tcna 434

<210> 3164
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G11

<400> 3164

gnagcagann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnactttttа taatttatcc gcttgtctgc tatctcttac 120

attaaatcta aacctaaatc attagaannn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnggcat ggctggtctc gatctaggca 240

caacttctcg ctacgtccac aacgtcgatg gtggcggcgg cggacagtnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn aggtttaaat ttaatagctt cnaatgataa ctccggacta agngg 415

<210> 3165
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G3

<400> 3165

ntcttgccgt tacctaccgg tctntnnatt cccgggtccg acccacgcgt ccgaancatc 60

tccttcgtgt tccgagattt gatatcgact aatcgaatca gaggataaga gaatggctca 120

cagaatactg agagatcatg aagccgatgg atgggaacgc tccgatttcc caatcatctg 180

cgaatcttgt ctcggtgaca acccctacgt gcgaatgacc aaagcgaatt atgataagga 240

atgcaagata tgtacacgac ctttcacggt gtttaggtgg cgacctggcc gggatgctag 300

atacaagaaa accgaaattt gtcagacttg ctgcaagttg aaaaatgttt gtcaagtctg 360

tcttctggat cttgagtatg gtcttccagt tcaagtaaga gacacagcac tcaacattag 420

tactcatgac tctatcccta aaagtgatgt caacaagaga gtatttgctg aanaacatga 480

caggaaggct 490

<210> 3166
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G4

<400> 3166

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tgagacaagt tattgttgac catgctttga tcaatggtga gagtgagaag aatgcagtga 120

cttcaatctt ccataagatt ggagctttcg aggaggagct taaggcagtg ctaccgaaag 180

aagtggaagc agcaagagca gcctacgata acggaacatc ggctatcccg aacaggatca 240

aggaatgtag gtcgtatcca ttgtatagat tcgtgaggga agagcttgga acagagcttt 300

tgaccggaga gaaagtgacg tcgcctggag aagagttcga caaggttttc acggcgattt 360

gtgaaggtaa aatcattgat tcgatgatgg aatgtcncaa cgaatggaac ggagctccca 420

ntccaatatg 430

<210> 3167
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G5

<400> 3167

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aagaaaaatg aattctcacc agaatcaaac cggagtgcaa aagaagggaa taacggagaa 120

aatcatggag aagctaccag gtcatcatgg acctactaac actggtgttg ttcaccacga 180

agaagaaagg gattgacggc gaaagttatg gcgcagctgc caatgtcatc catggtgcta 240

ctgggtaccg gtggtngttc accanganaa ngaanggaat gacggaaaan gtnatgganc 300

anntgccagg ncaccatggt tcacaccaan ctgganccaa cacaacttat ggtacnacna 360

ncactggtgg tgttcaccac gagaaaaaaa gtgtgaccga naaattatgg agaaactacc 420

aggtcatcat ggg 433

<210> 3168
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G8

<400> 3168

gaccggtcca nattgaattc gggcggccga cccacgcgnc cancattgtg caagaatggg 60

ttggtgggtt ctgctgtttc tttgatcgat gagatgacaa aggaaggaat tagtcctaat 120

gttgtaactt ataattccat aatcgatgcc tttggtcgtt ctgcaactat ggacagatca 180

gccgattata gcaatggtgg atctttgcct ttctcttctt ctgctctgag tgcattgact 240

gaaacagagg gtaatcgggt aatacagtta tttgggcagt taacaactga gagtaacaac 300

cgaacgacga aagattgtga ggagggtatg caggagctct cctgtatatt ggaagttttc 360

cgcaaaatgc atcagctgga aattaaacca aatgttgtaa ccttttcagc gattctgaat 420

gcttgcaatc cgtgtaactc aattgaaaga tgcatcaatg ccactaaaag gagct 475

<210> 3169
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-G9

<400> 3169

tctttctcac gattaatcgc tgagaagaag caaccacctg gagacggcgg agatggcagg 60

gtacagagtg gaagatgact acgattacct cttcaaagtt gttcttatat gcgattctgg 120

agttggcaaa tccaatctcc tttccagatt cactaaaaac gagttcaatc tanagtctaa 180

atccaccatt ggcgtcgaat tcgccactcg taccttaaaa gtcgatggca aagtcgttaa 240

agctcanatt tgggacactg ctggtcagga gaggtaccgt gccatcacta gtgcatatta 300

ccgtggagcc gtgggtgcac tcctagtata tgatgtaact cgccgtgcaa catttgagaa 360

ctanatcggt ggttaaagga actcaagaac cacacagatc caaacattgt atgatgccgg 420

n 421

<210> 3170
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-H2

<400> 3170

gaaaatcanc cacatcagca gcctgaagga ctagcgagtg gatccttgga tcttttaact 60

atgcttctta aggcaagtta tactagctag attttcgtag tacgcaatta ttttttatgc 120

taaatggaca gtatttgtgt tttgctgact atttttctag tcatatatag ggtgccccaa 180

gtgatatagt gaaaactgca tatgactttt gctttgctgc tgtcattcgt atcgtactcc 240

acagtgagga tcatggtgaa ctacagaatg cctggcagct tttatatcta gtggtaaaca 300

aagagttgct cacatggagt ggtgatnccg gttttactan ganaaatttg cttgatgcga 360

ctctaagctt ccaaccctga tctgggaagg tcaaaggatn tccncnttgc tgggaagtac 420

attcngcagc tta 433

<210> 3171
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-H3

<400> 3171

agaagcanct ccgattcgan annaaangnn nttncngttc ctncncaant ggcncggcga 60

gaaccttctn ancccctaat tacaaagttc ttgtcctgtg ggagaacccg attttcaaat 120

ttccccctgg acaaagggat tcatgtcaaa cgccgtctct tttcgtangg gtacgatgct 180

ttcaagcaaa aagcataaag ctactcagca agaacattca tttggagaaa gcagctgttc 240

tattcaatct tggtgctagc tacagccaga ttggactcgg tcatgaccgc accaccgtcg 300

atgggcgtcg tcaggcttca catgcgttca tggctgcagc angggggcgtt cgctcacttg 360

agggataacg agtccattaa ggcgacgatc gggccgagca ctaacgtgga tgtgtcggtt 420

gaatgtgttg gaatgttgga acngg 445

<210> 3172
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-H7

<400> 3172

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naaggttctt acagccattg ggaacttctg tatctgttcc attgctatcg gtatggtgat 120

tgagatcatc gtcatgtatc cgatccaacg ccgaaagtac agagatggaa ttgacaacct 180

tttggtcctc ttgatcggtg gtatccccat tgctaagcct acagtcttgt ccgttgaaca 240

anggtattgg gtcccaaaag gtngtcccaa gcaanggtgc aannacaanc cttataactg 300

cnattganna natggnagga ntggatgtcc tgtgcantga caaanccggg acactaaccc 360

tcaacaaatt gantgtggac anaaacttgg tcnaggtttt ctgcaagggt gtggana 417

<210> 3173
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-H9

<400> 3173

cgacccttta taaatctcac ttccttcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnctatccag ttccttctgt 120

gcgaagttct tctgattaat ttgagtttct tggaagcttt tactcgatcn tcatcggatc 180

ttagggtttt gtttaaatcc agatcttggg ttttgttaaa taatggcgac tccttatcct 240

ggagcgacgc angtgggttc gtactttgtg gggcagtant atcaagtgtt gcagcancag 300

ccagatctta ttcatcagtt ttattctgag cctantagag ctattcgtat cgaaggngat 360

tcaccganac tgnnaaatcc ttgntgnata ttcanaacat gggtaagtca c 411

<210> 3174
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-A2

<400> 3174

gcccggtctg acaaacgggt ccancacgcg tccgntcttn attcacttag tggtagctca 60

tcggttgagt gggcagaagg tgcatttgtt gcacagaagc aaccacttac ttggtacaag 120

acgactttct ctgctccagc tggagattcg ccattggctg tagacatggg aagcatggga 180

aaaggtcaaa tatggataaa tgggcagagc ctgggacgtc actggcctgc atataaagca 240

gttggttctt gcagcgagtg ttcttatacc ggaacattca gagaggacaa gtgcttaaga 300

aactgtggag aggcttctca aagatggtac catgtcccaa ggtcgtggct aaaaccaagt 360

ggcaatctaa tggttgtccn tttaaggaat ggggaaggag aacccaaacg ggatcaacgt 420

tggtcaagaa gaanaattgg acaatttnan gtncaanata tcctaatgaa ttggnaatca 480

<210> 3175
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-F4

<400> 3175

ntgatcacgg gccgaccacg cgtccaaana gactcggcgg gggctcggga aagattatct 60

tttctgttta acaagcctgc ccaccctgga aacggctcag ccgggaggta ngggtccaag 120

cggctgggaa gagccaccgc acgtcgcgtt gggtgtccgg tgcgcccccg ggcgggccct 180

ttgaaaaatc cgggagggac cgagtgccgc tcacgcccgg tcgtactcat aaccgcatca 240

ngtctccaag gtgaaacaac ctctggtcga tggaacaatg tangcaaggg aaagtcggca 300

aaatggatcc gtaacttcgg gaaaaggatt ggctctgaag ggctgggctc gggggtccca 360

agttccgaac ccgtcggctg tcaagcggac tgctcgaact gcttccgcng cgaaaacggg 420

tcgccgcntg ccggccgggg gacggactgg gaacgntctc t 461

<210> 3176
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-C8

<400> 3176

tttctgattt cgagaaaaaa caaaaatccg caaactcgac gatgatcctg aagaaagtat 60

ggggatcggt gtggaaccga tcgaatagtg gcaaggattt ggtgaatcat cagagagcga 120

tcgatgttcc tcctctgtta ttgtcttctt catcgtctct tggtgcgttt gatcagctac 180

cgatggatat tctagtccag atactgatga tgatggagcc aaaagatgct gtgaaattgg 240

gcttaacgtg caaagcctgg aaatgcgtag ctagtggtaa tcgtctctgg atattttatc 300

tccagtgttc tcaagagcca tgggactcca ttttcttcgc tgaaactagt ttgcgttctg 360

gttatcctct ccgaatgatt ccaagtcaat caagganaat tgtccnttaa gcacaatt 418

<210> 3177
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-D12

<400> 3177

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cctaccacag gaacaccaac tactgggaca ccaaccagtg ggaccccgac taccggaact 120

ccgaccaccg gaacccccac cactggaact ccaaccagtg ggactccaac tagtggcttc 180

ccaaataccg ggactccaaa cacagggact aacactggga tgccaaattc caacgggatg 240

ccaacttcat cgtcatcttc ggtgttcccg gggactactc ttggcccgac tgggagcggg 300

ggactaggcg atccaaatgc tggaganaag ctgtctgttc gaactaacac agtggtcttc 360

ttattaaccg gtgtagcagc aatgcttgtc atatgagggc ttanaantca cacgcggtta 420

tggttgtaat tgaattgctg aaaaattaaa tnttgccaa 459

<210> 3178
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-D6

<400> 3178

ccanacatgc ggtcttatct aaaacacaaa ccaacaaaaa gaaaaaatgg gcttggtccg 60

atcatttgct ttggtcatag tcttccttag ttgtctcatc gccgtttatg gccaaggtac 120

gaggatcggg ttctactcga ctacgtgccc taatgccgag acaattgttc ggaccactgt 180

ggcatctcac tttggttcag atccaaaggt tgcacccggg ttactganaa tgcacaacca 240

tgattgcttt gtccaaggtt gtgatggttc ggtgctttta tcgggaccta actctgaaag 300

aaccgctggc gcaanacgtt aacctccaat ggtttttgag ggtccatttg acgaatgcca 360

aanaagggca agctccgaan ggcaaacaat gtccctnggt ggnttgtcct ccttggttgc 420

cngaaaaatc cttgggcctt aaaccgggct ccnttgaatt ccgggttttc ctcctccgta 480

<210> 3179
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-D8

<400> 3179

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attgctcctt ccttcgtacc cctctctctg tcttttgagg tttccgggtc gggttggtga 120

gaaaactcca gcggcttaac ggatcttcca ctggtagttt tctgttcctc acaaggaaat 180

cgaaaatttg ataaagcgaa agtganaaag gcgtgtgttt tctttgtaaa ggctccaact 240

tttttgatga ncagcttgtg cttgtngtga aagnttgtta ctttttgtgt nantggnant 300

tggggttttt ccttaangtt ctgaaggagg agnaaaggag aaanctttct tggaatttgg 360

atncaaattt gngctcanan ggngagtttc aagggttttg tttgtgattc cngga 415

<210> 3180
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-D9

<400> 3180

cggtaccgat atgtgaattc gcgggtccga cccacgcgtc canccacgcg tccgcggacg 60

cgtggggctt gacgctgctt caaggctatt cttctnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnctc tgtgtttgat ttctctgcat ctgcctcctc cgctaaaaac gccggccttc 240

cttcagctga cgacgttttc tctcagattt cagggccacc ggagtttcta aacaaccgca 300

cagaagcaga taatgaagct tcagctagag atgcagaaca tgcaaatcgt attagtcgca 360

aaaagaagaa agttaaacca aaaggtgttg tcatggaagc aaaacctcaa ctagtaggaa 420

tccatgagag agtaagaaac gatattgatg caccccccatc ttcaa 465

<210> 3181
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-E1

<400> 3181

gaacacgcgt ccgcccacgc gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnncatg tgggatgtgg ctatagcagt cttcactgca tcttcctcct 120

cactttcttc tctctctttc tcttaatttc ttttttttcca gatttttctc tgattcccat 180

cttttccctc gaatgatcgg ttgagagaag atggtttcag agacttggtt tcgtaatctg 240

tggaggtttc aanagaaaca tgatgggtca taangataag gngggttcna ggagtaataa 300

ccgtttggag ggttgccaag tttgggtggt cccaaagctt ggttcaaatt tgtgggcaag 360

tcaatttaag gtggantaaa gaaatggttt ggcnaagggg cttaangggg aacnaagaat 420

tttcnacaat ttccaaacng ggggtantna ancnnaaagt tttanggttt tccca 475

<210> 3182
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-008-Q1-E1-E10

<400> 3182

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ggggtaatgt aggaggagga aaagatgcta attttggaaa tgtgggtgta agaaaggaaa 120

cagaacggtg tttgagtcag actgaggttg agaaggaggc gtggaagctg cttcgtggtg 180

ccgtggtgaa ctactgtggg ttccctgtgg ggactgtagc ggctaatgat ccaggggata 240

cgcagacttt gaactatgat caagtgttta ttcgtgattt tgttccttcg gcgtatgcgt 300

ttatgcttga tggagaaggg gagattgtta gaaactttct ccttcataca ttgcaattgc 360

agaactggga gaaaacagtg gactgtcaca accctggccc gggggctaat gccaaccaat 420

tttaa 425

<210> 3183
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-E11

<400> 3183

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ctcgactccg tgatacactt ccagctgagc cacagaggag gaatggaagg cttcagctaa 120

tgctttacaa gcttctatgg gacactattg tgaaagaagg gtttccaacg ggacctttt 180

tcgactactt ttctttgaat cgcaattatg tcttatccca agatgtcaga gatcacattg 240

ctaatgcagg tatcaaagct cagacacttg aagagatagt taggtactat gaaaacactt 300

ttcagatgct tccgatagca ataatcaac tattactaaa gtacgagttt cagaaggacc 360

aatctataat agctgaaatt agattcaacc atgatcatga atgggtgatg agcaaatata 420

gagaagtcat tgagttctgg agaaatgaac gaaaanctgg gtacactccc 470

<210> 3184
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-E2

<400> 3184

gaatataact accatattct caatcacaac actcgccact gtttcgaata gatggcttcn 60

atttcaaccc cttttccgat ttctctccac ccaaaaaccg tacgatcaaa gccgttgana 120

ttccgagttt tgacccgtcc gatcaaagct tccgggtcag aaactcctga tctaaccgta 180

gcgacacgaa ccggatccaa agatctcccg atccgaaaca taccgggaaa ctacggttta 240

ccaatcgnag gaccaatcaa agaccgttgg gattactttt acgaccaacg agctgaagag 300

ttcttcaaan cacgaatccg taaatacaac tccacggtgt acagagtcaa catgccancg 360

ggagctttta tcgccggaga atccacaagt cgtggcttta ctccgacggt aaaagcttcc 420

cggnttaatc gatgtcgata 440

<210> 3185
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-E6

<400> 3185

agctttgnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn tggtacttag atgcggttct tgtgccaagt gctttactta 120

tgatgtttgg ttaccacatc tatttgtggt ataaggttcg aaccgatcct ttctgcacca 180

ttgttggtac aaattcccgc gcccgtcgat cttgggtagc agccatcatg aaggacaacg 240

agaagaagaa catcttagcg gtacaaacac tacgaaacac gataatggga gggacgttaa 300

tggcaaccac ttgcatcctc ctctgcgcan gtctcgctgc cgtttttaac cagtacttat 360

accatcaaga aancctttaa acgacnccgt atatggagct catggngact tcacngttgc 420

actcaatacg taac 434

<210> 3186
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-E7

<400> 3186

naatcagatc tagctcaacc atggcgttgc tcgtcgagaa gacntcaagt ggccgtgaat 60

acaangtcaa agacatgtct caagccgatt tcggtcgtct cgaantcgag ctcgccgaag 120

ttgagatgcc tggactcatg gcttgtcgta ccgaattcgg accttctcag ccattcaaag 180

gcgcnagaat caccggatct cttcacatga ccatccaaac cgccgtactc atcgaaaccc 240

taactgctct cggtgctgaa gtcagatggt gttcctgcan catcttttcn actcaggaca 300

ngcngccgca gccatcgctc gtgactccgc cgctgttttc gcctgnaaan gnnagactct 360

tcatgagtac tggtngtgta ccgagcgtgc tcctagattg gggtcaagtg ttggtnctga 420

<210> 3187

<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-F11

<400> 3187

catcttgaat cttgattgtg atcattacat aaataacagc aaagccttaa gagaagcaat 60

gtgcttcctg atggacccaa acctcgggaa gcaagtttgt tatgttcagt tcccacaaag 120

atttgatggt atcgataaga acgatagata tgctaatcgt aataccgtgt tctttgatat 180

taacttgaga ggtttagatg ggattcaagg acctgtatat gtcggaactg gatgtgtttt 240

caacagaaca gcattatacg gttatgaacc tccaataaaa gtaaaacaca agaagccaag 300

tcttttatct aagctctgtg gtggatcaag aaagaagaat tccaaagcta agaaagagtc 360

ggacaaaaag aaatcaggca ngcatactga ctcaactgtt cctgtattca acctcn 416

<210> 3188
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-F12

<400> 3188

gcagcataga tgatcctgcg aaagcgagtt tcttcgagtc ataccacaca cctgtcccca 60

tccataacac cattgctacg aaattgggga taaaagaatc tccaatcaag atcaacagcc 120

agactaagta tgcagcttta tctagaggag atggagaggt ttacttgagg tttactcgca 180

aagcaagacc cgaatcaata tggaatcacg ctgctggctc aatcattgtt tcagaagcag 240

gagggaaagt gactgatgca gcagggaatc cattggactt ttcgaaaggg aagtatcttg 300

attacaagag aggaatcgtc gttacgacgc agaaactgtt gccaaggctt ttaacnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna aagctgcttc tccaaaactt 420

cactaac 427

<210> 3189
<211> 433
<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-008-Q1-E1-C6

<400> 3189

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cagtgaaaac agaaagcagc atttgagatt ccactgttaa tctttgaatt aaaaatgagt 120

gcagcagcta caatgcctat gccccgagaa gcgtctaatt acgatgagat ctctatgcaa 180

cagagcatgc tcttctctga tagtctcaag gatctgaaga atctgagaac acagttgtat 240

tcagcagctg agtatttcga actatcctac acaaacgatg aacaaaaaca gatagtcgtg 300

gagacactga aagattatgc aataaaggct ctggtgaata cagttgacca tttggggtct 360

gttacatata aagtaaatga ctttgtagat gaaaaatcat gaattaccag gaaccgaact 420

gcgaatttct tgc 433

<210> 3190
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-F3

<400> 3190

aaaattgtgt ccttccaaaa tccccgggtt ctttgatttc tccggaaacc ggtatttgga 60

aggtccggct ccggttatga gcagtatcaa gcttcagaca tctccacatc anacaagaca 120

cattcttgct gaaactccaa cttcaagtcc cacgaacaaa cccaacaaca gcactacatc 180

aaaagctcca aagggagctc caaaaccagg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnncggcat ggatcttagg gtttgtcgtt ggagccatag gaggaacaat 300

ctctgggttt gtcttctcgg tgttgttcaa attgattatt caagcaataa gaggatcaga 360

aaaaccacca agtccttcca tattcagccc attgattaaa gaaagctgaa agatttacct 420

tccttgggag aatgaag 437

<210> 3191
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-A2

<400> 3191

aaaaatcnan aatgacttcn cctactgcga ctaagtatga tgtctttctg gagtttcaga 60

gggagtcgac actccgtcgc aacttcatca gttttctcta canagaattc gttcgaagga 120

aaattcgaac tttcaaagac gacaaggagc ttgagaatgg ccggaggatt tctccggagc 180

tcaaacgcgc catcgaggag tcgaaattcg ccgtcgttgt tgtctctgta aactacgctg 240

cgtctccttg gtgtctcgat gagcttgtga agattatgga tttcgaaaac aagggttcca 300

tcactgtgat gcctatcttc tacggtgtgg atccgtgtca tttgaggagg cagatcggag 360

atgtcgctga acagtttaag aagcacgang ctagagaaga agatcatgag aaaattgcnt 420

cgtggagacg aacattg 437

<210> 3192
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-A5

<400> 3192

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cggaaaaaaa cttctctctg agatcagatc tcttacgatt ctcagctcaa tcttatcttt 120

tcctttgttg tgctgctttt cactctcttc tgcgcgacga atttggcctt gtttttttgtt 180

tgtttgtcgt atccgacgcg gaggtattga gaaaccgtgg cttaagacgg aggaagaaga 240

tggaagctaa cgggattgag aacttgacga atccgaatca ggaaagagag tttataagga 300

gacatcataa gcatgagctt gtggataatc agtgtagctc ctacgcttgg ttaaacataa 360

caacgctccc ggtcaaaatg gtggtggcca cttgtgaaga aagatttgnt nagccacaag 420

aagtataanc cgtttatcag t 441

<210> 3193
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-A7

<400> 3193

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aaaatggcga atggagctaa tagagtggat ctcgacggga aaccgataca accgttgaca 120

atatgcatga tcggcgccgg aggtttcatc ggttcacatc tctgtgaaaa gctcttgacc 180

gagacgccac ataaggtgct tgcgctcgat gtttacaacg ataagatcaa acacttgctt 240

gagcctgata ccgttgaatg gagtggtcgg atccagtttc atcgtatcaa tattaagcat 300

gattcgagac ttgaaggtct tgttaagatg gcggatctga ttataaatct tgctgcgatc 360

tgtactccag ctgattacaa tacacgtcct cttgatacta tctacagcaa tttcattgat 420

gcgcctccag ttgtgaaata cggtctgaga acacaa 456

<210> 3194
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-A8

<400> 3194

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ttcttcttct tatcattcac atcgccgtgt tgttgtcact ggtctaggca tggtgactcc 120

acttggtaga ggcgttgaaa caacgtggag gcgtttaatt gatggagaat gtgggattag 180

aggattgact cttgatgatc tcaagatgaa gtcttttgat gaagagacaa agttatatac 240

ttttgatcag ctttcttcta aagttgctgc ttttgtgcct tatggattaa accctggtga 300

atttgatgaa acccttggc taaactccaa nggaattgcc aaatttaanc ggataatgcg 360

gtanttgctg ccgatnaanc tttgnaanat gcanagtggt tacaaactga agaa 414

<210> 3195
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-008-Q1-E1-A9

<400> 3195

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cgctacaaac gtttcttctt caacctcgtt cagagattat cctcccttct tttctcatct 120

tacaaggaag ttgggcagtt aaagctgctg ggatcaccag ttttgtcaaa agtggagtgt 180

gaagaatctt ttatgtctga acaggcttct ctctttcaat catctatccg gcttttagga 240

gagtactgtc ctatatctag gaaaaagtcc actcataaag ttggtggttt gcgttttgag 300

gaggacatca cgagctgtat tggatttcag tttatgcaac tgagtgatta tcactgcctc 360

ttctgacatc ccttgtttgt ttacgtttgt tgaatcaaga tggctttgca aaaca 415

<210> 3196
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-B10

<400> 3196

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gtgaaggcac tgcaaggcgc ggctcanaat ctaccggcgg atgtcaacca attgatcgat 120

cagttagagc gtcactgttt ggctcccgat ggatctcttg ttaccaaatc tgtctactcc 180

gatctccaac tcgcgagaga ggagatgtct cgggagagac ttcggtattt ggaagctatg 240

gctatttatt gtgaagctgt agctatggtt gaagaatatc agcaagctat ttcagtagct 300

aaccatgggg gaattcgtga tgttcaaggt ctataccctc aacttggctt gaagaattct 360

cctcangttt atgagactct anagcatang ttggtggttt ccgaaggggg tcaaaaactg 420

aa 422

<210> 3197
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-B2

<400> 3197

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cctaagcctg gtggtggtga attcggaaag ttctatagct tacctgctct taacgatcca 120

cgagttgata aacttcctta ctctattagg attctgcttg aatctgcgat tcgtaattgt 180

gataactttc aagttactaa ggaagatgtt gagaagatta ttgactggga aaagacatct 240

cctaaacaag tagagattcc ttttaaacca gctcgtgttc ttcttcagga ctttacggga 300

gtcccagctg ttgttgacct tgcttgtatg cgtgatgcga tgaataagct gggaagtgat 360

tccaacaaaa tcaatccctt ggttcccggt ggatcttgtg attgatcact cggttcaagt 420

agatgtagct cgatnagaga atgcagtgca agcaaacatg gagcttgaat 470

<210> 3198
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-B3

<400> 3198

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ttttttcctt cttgcaatgg caaaatcgaa gaaaatttct acaggtcaaa tatttggttg 120

tgagagtctc cttgggtgca ttttccagag ctggagccct cgccgtcgaa aaccctcttt 180

accggaaaag gatcatcggg caaaagataa cttgtcttcc aagtcatcaa caaccgttac 240

aaaccctaaa atcctcccaa gaaaatccac cgatacttct tctcaaccaa agaaatctga 300

ctcccagaaa ccccaacaaa agccaaaacc aagatgagaa tcaccgcgaa aatcatcggg 360

atccgccaag aaaatcatct gattccgcaa agaaaatcga ttcgtcaggc tcatcaagaa 420

cagagagcaa ngagatt 437

<210> 3199
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-B6

<400> 3199

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ggggagttgg aaaatattcg aggtctcaga tgtaccacaa gagaggtttg tgggctatca 120

aggccaagaa cggtggcgtt ttccctcgtc acgatgctca gccaaaggtc gacgctccgg 180

ttgagaagcc tgccaagttt tatccggcgg aagacgtcaa gaagccgctt gttaacagac 240

gcaagcctaa gcctaccaag ctaaaagcca gcatcactcc aggaactgtg ttgatcattc 300

ttgctggtag attcaanggg taagaaaatt gtccttcctc aagcaacttt ccttctggtt 360

tgcctccttg ttacaaggac caattcaaga attaatgggt gtttcaattg anaacttgtt 420

aaccaaancc taatgtnaat tggaacct 448

<210> 3200
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-B7

<400> 3200

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tcagtggttc aaattggaat ctttgttagg ctaacttttt gggagttttc ttgggatgtg 120

atggaaccaa taacgttttt cactacagct actgggatta ttgtgggtta tgcttatttc 180

ttgatgactt ctagagatcc aacgtatcaa gatttcatga aaaggttgtt tctttccagg 240

cagaggaagt tgcttaagag tcataagttt gatgctgaga ggtttaaaga actggagaac 300

aagtggaaga taacgtcttg ctcttcttct tcgtgccacg ctaatgcatc gattcggaat 360

cgtgttggtg ttgatcttga tttggaggat tccttgcaga gtcatcacag agattgattg 420

gntcta 426

<210> 3201
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-C1

<400> 3201

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cggtcaatta cgcattctct gatctgattt gtgagatctc tcgtcggatc accgtttttt 120

acatcgtcgc cgacaacact taggagtaat tggatccaag canaaatgtc gataaacatg 180

aaaacattta ctcaagctct agctagaacg gctgctgtga ttgagaagac ggttcatacc 240

acagtacagg aagttacggg accaaangct cttcaggatt acgagctact tgatcagatn 300

ggttccgctg gtcctggtcn agcttggaag ctatacgcag ctaangcgcg ttgattccac 360

gaaggcacag caataaccga aggtctgtgt aatggatgcc tgataagcgt gctttgtcgg 420

aaggcncctg taa 433

<210> 3202
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-C10

<400> 3202

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cagcaatgac taaaaagaag aatcctaatg ttttcttgga tgtatcaatt ggtggggatc 120

ccgttcaacg gattgtcatt gagctttttg ctgatgttgt ccccaagaca gcggaaaact 180

tccgtgccct ctgcacaggt gaggcgggcg ttggaaagtc cactgggaag cctctacatt 240

tcaaaggatc atctttccat cgggttatca aaggattcat ggctcagggt ggtgattttt 300

ccaatgggaa tggcactggt ggggagagca tctatggtgg gaagtttcag atgagaactt 360

tagattggac catgatggaa ctggantcct tcaatggcaa attgtgggcc aaaa 414

<210> 3203
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-C3

<400> 3203

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tgaaagtaga cgacgatgcg attcttaaat ccttcctcgc cgaggtcgga gaagttgaga 120

gagataacga agtcggcagg attctctcat gcttcaagct gaatccgttt gagcatctta 180

acctctcttt cgattcttcc acggatgatg ttaaaaggna gtacagaaag atttctttga 240

tggttcatcc tgataaatgc aaacatccac aagcacaaga ggnnttcngg gcaatgggaa 300

aagcccnaca actggtggca aacgaacnag naagngaata aaatccttaa ccaaattcaa 360

ggctggcaaa ggaaganctt taganngaga ggnaaggaac nnnttaagga aagaaaacgg 420

ctnnaaaaat aaaatccctt ggtggna 447

<210> 3204
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-C5

<400> 3204

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aaagcaggcc tcagaggatg ctaagaaact tgtcgacnag gaaagagcgt ttgcacgtgc 120

tgagattgaa agtgcaagag cagctgtaca aagagttgaa gaagccctgc gagaacatga 180

acagatgtct cgtgcctctg ggaaacanga catggaagat ctaatgaagg aagttcaaga 240

agctangcgg attaaattgc tgcatcaacc aagcagggta atggatatgg aatatgagct 300

tcgagcacta agaaatcanc ttgcagagaa atcaaancat tttcttcaac tacaaannaa 360

gctcgcaatg tgcanaaaga ncgaggaant atcccttgta tatgaaatag atggcactga 420

agctctagga tc 432

<210> 3205
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-007-Q1-E1-H9

<400> 3205

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caggaaatcg tccaacganc acaagagatc catgccattt cctctgatac atcttcagaa 120

cacgcagtna agattaccgg agtccgatat aaattcggtt aatctgntga gggagacaga 180

ttctctctcc agcgatgcta ttgctantga agatcccttt ancactgatt tggcctcaca 240

aagttttact agtgcncaga cagagagatt gaacgcnagg caagcgagcc atgaggacaa 300

caatctatct gtttttggtg cttctcctcc atcctctgtt gcttcaataa tgncgangaa 360

ccattanaga cnaacaatct cagngaangg agaatgctcc acagtacaca cntcaatc 418

<210> 3206
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D8

<400> 3206

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agctcttgaa gcagcccanc aagggattgt tcttctcaaa aactctgctc nctctcttcc 120

actctcnccc agacgccacc gcaccgtcac cgtgattggt ccaaactccg acgtcactga 180

gactatgatc ggcaactatg cagggaaagc atgcgcctat angtcgccgt tgcaagggat 240

ttcaagatac gcnaggacac ttcaccaanc tggctgtgcc ggcgtggctt gcaaagggaa 300

ccaaggattt ggtgcancgg atgcagcggc gcgtgaagcc gacgcgacng ttcttgtgat 360

gggantaaat cagtcgatan angcagagac acgatatcga accggggctt ctcttaccgg 420

gttatcaaca agatctaatg acccgtgt 448

<210> 3207
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E1

<400> 3207

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atctcagatc ccgatcccgt ctccttatct tccgccggcg acttcttcat ttttctcttc 120

tacctaccac ctcttaatca ttctctctcc ccccgcagat ctagcgaatc gaattcgaat 180

ccttaagtag tagtggaatc atggcgctaa gcatgcgaaa agcgatcgga gttgttaagg 240

atcagactag tatcggcata gcgaaggtag ctagcaacat ggctccagat ctggaagttg 300

cgatcgtgaa agctacaaag ccacgacgat gatnaatcta gtgacaaagt atatcccgcg 360

agattcttaa cttaacttca ctctccccgt gggctacgtt cacgcctggt gtcacctccg 420

gttcaacgcc gtcttaaaga angacgcgtg act 453

<210> 3208
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E10

<400> 3208

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tggattgatc gattaagcca cttagactag tcnctgcgaa agaatgagac tgagaagttg 120

gacatctcga tacttttgga aaccccgatt tgttgatgac tcttgaatct atgggacggt 180

gaatcccaaa gaatggttcc attttaagtt tgttttgtat tgttggtgga ggctggatga 240

ttttgagagc acttgtactt gagctttgtt ctcatatctt gaattacaca gtggaatana 300

aaagatgaca actttgtatt aagtaagatg atgaacacnt gtagctcttc ctgctagata 360

tttgattaat ggaattgcct gttttccccc ttttttgagt tgcaantgga nttcaggatt 420

gataatg 427

<210> 3209
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E11

<400> 3209

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ttctcttttc tccaagttta acgctttttt agctcaaagc tcacacacac gaccactcta 120

ttcctccttt aacctttgtg tttgtcaann nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnaaagttt cgattaagaa gatagtggtt taggtttacg gttttgtaat 300

tgatttatta tctgtaatgg gttgtgaggt ttcaaagtta tctgcacttt gttgtgtttc 360

agagtctgga agatcgaatc ctgatgttac anggcttaga tgangaangg agaaggtgaa 420

tcaa 424

<210> 3210
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E12

<400> 3210

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tgaaggctat tgaaaatggt gatttgttga agatcctcca aagtgaaatt cgtcacgaaa 120

tctcccatcc tcgtttccag ggcgttgaga ccggttctct aggagatttc aaattggatt 180

gggattcacc ggaaagccaa gatattgttc tgaagagaca gtttgattca ggcgagaagg 240

ttgtggtctc tgctttattg caaccagaac ctatagaact agaagatgat ttagtgtttc 300

ctagggaagc tcatgccaaa gtttgtatca aaaagcctgg tctcagctct atcttgcagt 360

ttcattgccg ggtttacgaa tcaggatctg ggatcttctc anttcgacat cganaacgcc 420

tactttatcc c 431

<210> 3211
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E2

<400> 3211

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tctaagcttc ttcttcactg tnaaaacctc agatcgcaaa tatgcacgca ccggtactcg 120

ttctgagcga ttcgttgaag cgtgaatctg gaagtaaggt tcatcatggt aatatccaag 180

cttccaaggc tgttgctgat atcattcgta caacattggg tcctcgttct atgttgaaga 240

tgcttcttga tgctggtgga gggattgttg ttactaatga tgggaatgct attcttcgtg 300

agctagatgt cgctcatcct gcagctaagt caatgattga gttgagccgt acgcaagatg 360

aagaanttgg tgatgggaca acgtctgtta ttgttccaac tgggtgaaat gctcacgttg 420

cagaancttt cntgagaaga attaca 446

<210> 3212
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E3

<400> 3212

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tccatgatct ctaccttcac tccatgtctc aacttcatca ccggaagcag cggcggttcc 120

gtcactccca ccgccggctg ctgcgactcc ttgaagacgt tgaccaacac tggcatgggc 180

tgtgcttgcc tcatcctcac tgctaacgtc ccgctgccta ctggcttcat caatcggact 240

ctggcgcttg ctctacctcg agcctgcaaa atgggcggtg tacctattca atgtcaagct 300

gcggggactc ctctaccaac tccaagtcag gttccatttt tgattgctcc accacctcaa 360

gtgtctgctt tagcccggga acctcaangg cggcngggac aacaccaaca caggcactgc 420

ancggatact cccgcggatg g 441

<210> 3213
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E6

<400> 3213

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aggctgctcc tactcccatc gataccaagg cctctaccaa acgccgaacc ggctccatcc 120

cctgcggcaa gcgtaccgat tttggctact ccaaagactt ccacgatcac tacaccatcg 180

gcaagttgct cggccatggt caattcggct acacctacgt cgccatccac agacccaatg 240

gagatcgcgt cgccgtcaaa agactcgata agtctaagat ggttcttcct attgctgttg 300

aggatgtcaa gcgtgaggtt cagattctta ttgctctctc tggccacgag aatgttgttc 360

agtttcacaa tgcctttgan gatgacgatt acgtctatat tgttatggag ttgtgcgaag 420

gaggcgaatt gctgggatag gatattatcc 450

<210> 3214
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E7

<400> 3214

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natggatgct gctatcttta cttccgtana cgtttgcaat ataccaaaga cgaagaangc 120

tttcttcaac ccgaatccgc ctgctctatc ttcgtcttct tgttggctct gcaattcgca 180

ngccaagcaa atcatanaac tgagaatcag ggaaggctcg aatcaggggc ttcttcgtgt 240

acatgctctg tttaacaacg aggaggcatc angtgaaagt gaagatanga atgggtttgg 300

tttgctaccg gcggatattt tctctttgcc tcaggagaag tttggaagta atgtaagtgg 360

tgaaaaggat agtgnaaana taattgatgt ngagacatct c 401

<210> 3215
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E8

<400> 3215

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nnnnnnnnnn nngactcatt tccctcatta gatcttcttc tccactaaac ccataattga 120

aagaagctct ttttttgctt acattgaagt taaaaaatca tcacttgttt tgtttttgaa 180

gaaacacaca taaagtttgt ctttttactt ctcaaatttg gttgttttca ctcaatttca 240

atcttgcttt ctgattcaga ttctgggttt tcttcagaat tcccagagaa gttgttggaa 300

ttgaattttt cactttttg ttcataaaag ttctagtcnt tttagatgaa catggacaag 360

gaaacagagc aaaccctaaa ttacttacct ttgggtcaga gcgatccttt ggcaatggca 420

atgaangaac aattggagat tc 442

<210> 3216
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-E9

<400> 3216

cgnggcttac tatagcagtt gaattggtag ctaatccatc aataatcttc atggacgagc 60

caacatctgg tcttgatgca agagctgctg ccattgttat gcgtactgtt aggaatactg 120

ttgatacagg aagaactgtt gtttgtacaa ttcaccaacc tagcatcgac attttcgaat 180

ccttcgatga gttgctgttg atgaaacgag gaggacaagt tatatatgct ggaacactag 240

gacatcactc acaaaaactc gttgaatact ttgaggctat tgaaggggtt ccaaagatca 300

aggacggata caatcctgcg acgtggatgc ttgacgtcac tactccttca atggagtcac 360

aaatgaacgt ggactttgct caaatattcg ttaactcctc tgttaatccg agaaatcagg 420

aactcatc 428

<210> 3217
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-F3

<400> 3217

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taccgtgttc ngtgtttttt gatgatttat gtgaacaaga ntcaagcaga gacancctac 120

gattatgaag tacgttttgg tgacaggagg agtggtgagt ggtcctggca aacgtgtcac 180

ngctagtagc attggacttc tccttcaagc atgtggtctt cgtgtcactt ccattncaat 240

tgatccttat cttaacactg atgcnggnac aatgtctccg tttgagcatg gntaagtatt 300

tgtcntggat gaangtggag aagtggattt gnncctngga aactaatgaa cgatttttta 360

gacagtacat ttgacccgtn acancaanat aactaccggg aaagatatac cagtcaagtt 420

attgacaaag gatnggaagg gggactactc ggaac 455

<210> 3218
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-F7

<400> 3218

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gtctcactct ctccaaaaac agaggaagga gaacaaacca agaactcaag ctcccctgct 120

cttctcatct ttcttcttcg ttttctattt tctttcttct ttattctttg attcttttga 180

aatgaatcat ctttacaaaa acccatttcg catttatgaa attagtttcc atttctgcgc 240

gagtctactc ttgtgtttct tactcttctc tgctcaagct gttgcaggtg gtggaggtgg 300

tggtcactct tgggatggaa tcgtggtgac tcaggcgaac tatcangcac tccaatgcta 360

tcaancacga nctcattgac ttcaccggag ttctcaaaaa gctgggaaca actctgcctc 420

ntctcaagtt tgctcaggct gggctggaat 450

<210> 3219
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-F8

<400> 3219

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tgaagatatt cttgcaaatc ggttacctgt ttaccaaagg atgggccaga attctcttat 120

ctcccactgg agaagtgctt ttgcgagagc agatgtggtt gtctttccac agtttaccct 180

gccgatgttg catagcgttc ttgatgatgg gaacttcgtt gtgattccag aatctgtagt 240

tgatgtttgg gctgcggaaa gctacagtga aacccataca aaacaaaatc taagggaaat 300

taacgaattt ggtgaggatg acgtgatcat cttggtgctt gggagctcct tcttttatga 360

tgagtttcnt gggataatgc cgtggcaatg cacatgttgg ggaccacttt taacacgata 420

tgggangaga aaagattcaa g 441

<210> 3220
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D7

<400> 3220

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ggggaccacn agatgcttcc gacacttccn ccaccagcgt cgcggcggcg aatctcctcc 120

caaacgtccc cttcgcttcc ttctcacgat ccgaaaaact cggacgcgtt gctgattgga 180

ctcgagctct ctcaaatcca tcagctcgtc ctcacaccgg atccaaatca gatccatcag 240

cgatcttcga tttctcagct tttgcagtag atgaaggatt tggtctaaca aactcangtg 300

gaaacgcnga ctaagacgcc gctttccgat tantcgacgg aaaaacaccg gccgcgtcct 360

aaattccgga ctaaatggga naatcaatca atgnncataa ccgaanatca gcttcctcaa 420

cgttnttaat gaa 433

<210> 3221
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C1

<400> 3221

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acaaaaacaa cacgtagttt gcgttcctta tccggctcaa ggccacatca acccaatgat 120

gaaagtggct aaactccttt acgccaaagg cttccatatt accttcgtca acaccgtcta 180

caaccacaac cgtctcctcc ggtcccgtgg gcctaacgcc gttgacgggc ttccttcttt 240

ccggtttgag tccatccctg acggtctacc cgagactgac gtggacgtca ctcaggacat 300

ccctactctt tgcgagtcca caatgaagca ctgtctcgct ccattcaagg agcntctccg 360

gcaaattaaa cgcaagggga tgatgttcct ccctggngan ctgtaaccgt atccgacngg 420

ttgtaagaac ctcacacttg atgccgccgg aggaa 455

<210> 3222
<211> 482
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C10

<400> 3222

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ttcgcggtgg gctcgattcg tgattcctca aagttcatca tccctaaggc actgtcactt 120

aatggcatcg gaatcgaaaa gctacgctag gagagatcgt cttcttgaga ttgaggccac 180

tgttcgaaag tggtgggaag acgaggatgt attcagagcc gaatcttgtg agaatcttcc 240

aaaaccagga gaaaagtttt tctcaacctt ccctttcccg tatatgaatg gttatctaca 300

cattgggcat gccttttcat tgtccaaggt tgattttgct tctgcttacc ataggctaag 360

angagctaat gtgcttctcc aatttgggtt tcaattgtac tggtatgcca attaagggct 420

tctgcggata accttcgtcg tgagattgaa cagtttgggt aacctcctgt gttactgctg 480

aa 482

<210> 3223
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-006-Q1-E1-C11

<400> 3223

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ctatgcaggc aacggcttta tcatctgggt tcaatcctct aacgaaacgt aaagatcaca 120

gatttcccag gtcatgctct cagagaaatt ctctgtcttt gattcaatgc gatataaaag 180

agagatcttt cggagagtct atgacgatca cgaatcgtgg attgagtttt aagacgaatg 240

tgtttgagca agctcgttct gtgactggag actgttctta tgatgaaact tcagctaaag 300

cacgttctca tgttgttgca gaagataaga ttggtgtctg ctttgaatta aggtggcctg 360

aaaccttaa cgatgttcaa ccttcctggt aaaacctctt tgctgatccg gatataaaa 419

<210> 3224
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C12

<400> 3224

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ttaaaagtgc tacatcatat gcattaaaca gacaactaag catggatgat cttacaaagc 120

ctgtggaaga agagaatatc aagatcacta tggaggattt tctccacgct atctatgaag 180

ttcaacctgc atttggagcc tccacagatg acctagagcg ctgcagactc aatgggatgg 240

tagattgtgg tcatcggcat aatcacattt acaaaagagc tatgcttcta gtcgagcaag 300

ttaaagttag tactagaagt cctctagtca cttgccttct ggaggggccc agtggaagtg 360

ggaaaactgc tttagcagca acaattgggt atccgatagt gacttcccaa tatgttaaag 420

atagttctgc ggnaactatg attggtcttt ctgagagcac aaaatgtgct cac 473

<210> 3225
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C4

<400> 3225

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ttgtatctac ttcacttgct gtagagatat ggtatcaaga tcttattcaa acctcttgga 120

tcttgcttct ggtaacttcc attcgttttc tcgagaaaag aanaggtttc caagagtagc 180

aactgtcact ggtgtcttat ctgagctaga tgatgataac aacagcaaca gtgtctgctc 240

tgatgctcct tcttccgtca cacaagatcg aatcatcatc gttggaaacc agcttcctat 300

taaatcacat cggaactctg ctggtaaatt gagttttagt tgggacaatg actcgcttcn 360

cttgcagctt aaaagatggt atgcgtgaag atatgggaag tttgtctaca ttgggttgcc 420

ttaanggaac agattgatac agttgagcaa gat 453

<210> 3226
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C7

<400> 3226

gcaaccacat catgggaaga actcttaggc tcaaagaatt gggacactat cttagaccca 60

ttanaccaat cacttaggga actcatctta cgttgtggcg acttttgtcn ngccacctac 120

gatgccttcg tcaacganca aaactccaag tactgtggan ccagccgcta cggcanatct 180

tctttcttcg acanggtcat gctcnaaaac gcttccgact acnatgttgt aaacttcctc 240

tacgccacan ctcgtgtttc tctccccgaa ggtttgcttc tccaatcaca atcancnaga 300

ttcctgggac cgtgagtcta actggtttgg ctacattgct gtcncgtctg aatgaanngt 360

ctaaagcttt aggacgccgt gagatctata tagctttgan aagaacgagc aggaactaag 420

agttggtnaa atgttttggg gtgctangcc 450

<210> 3227
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-C8

<400> 3227

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gcctgagagt gtaacaaagg actgatgatg aagattattg cggcgtttct cttcctcttg 120

gtcacgactt ttgtttcccg ttgtttgtct gcagacatag aatcggacaa gcaagcactg 180

cttgagtttg catctcntgt tcctcacagt cgcaaactca actggaactc cactattcca 240

atctgtgcct cttggactgg tatcacctgc nccaagaaca acgcccgtgt aaccgcactc 300

cgtttgcctg gatctggact ttatggacct ttaccanaga aaacatttga gaagcttgat 360

gccctcanga tcattagcct tagatccaac cacttcaagg gaacattcca tctgtcatcc 420

ttcacttcct ttaanccgat gac 443

<210> 3228
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D1

<400> 3228

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agaagaagaa gaagaaagat aaattaaaag ggtggttctg agttttaagg attattgttt 120

gannnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt atctgattgc 180

tctaatgaat atgagaagct cgttgttcgg atgaacatgc ccagggtcgt aattgacaat 240

ggagtttgcc ctaattcaac tgtcgtcaag attgatagtg caagaagccc aggaatattg 300

cttgaatctg tacaacttct cactgatatg aatctccgga tnaaaaaagc ttacatttcc 360

tctgatggaa aatggaatat gggatgtttt tcatgtgagc gatctaacgg agacaaatta 420

accgacgaga acctaatccc gttacattga a 451

<210> 3229
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D10

<400> 3229

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ttccgcccan ncgtccgatc aaatcaaatc accatggctt tagcttggtg cgttgtacgc 120

aggtcagcat ctaagtttgc ttccgtttat ggtggccgag tccgatctat ctccgccgtt 180

gcgaaccgcg cctctctagc tcgcaaccca tcttcaattc gtccattcgt ctctcgcgcc 240

ttaaattact cgacggctat tgatcgaatt agctccgagc aaacgcttat ccgagttatt 300

gactccgaaa tcaactctgc tttgcaatcc gataatatcg attcggatga agagatgact 360

ccaggaagct ttccttttag aattgaagac aaacctggaa atcagaatgt tacattgact 420

agagactaca atgggggaac atattaaagt tgttgtaagc atgcctaagt cctggttcag 480

a 481

<210> 3230
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D11

<400> 3230

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ttggacttgg cactctttta tctggtgctc ccattgtctc cgacgggatg cttcaggccg 120

catccgagtg cctagcagca tacatgagcg aagaagaagt gctagagggg attatatacc 180

ctccaatatc aangatacga gacataacan aaagaatanc agctgcggtg attaaggaag 240

cgattgagga ggatttggtt gaaggatata gagaaatgga cgctcgagag atccaaaagc 300

tggatgagga ngggctgatg gagtatgtgg aaaacaacat gtggaatcca gagtacccga 360

ctttggtcta caaggatgac taagtttggg ttcccaaaat gaataagtct actttctc 418

<210> 3231
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D12

<400> 3231

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cgtgggcgga gtatgatatt atgtctccgg tacagccaaa aactgagaga gctattgcag 120

ctgcttttat ttctaattgt ggtgctcgga attttcgtct acaagcactt gaggcattga 180

tgaaaactaa cattaagatt gattcttatg gtggttgtca tcgaaaccgg gatgggaaag 240

ttgacaaggt tgaagctctt aagcgataca aattcagttt ggcttttgag aatactaacg 300

angaagatta tgtcaccgaa gaaattcctt caatncctta agttgcctgg gtcccgttcc 360

ccgttggtaa tttgggccct ccaaaattat tagaaagaan tttccgcctg gcttccggac 420

tcattccctt caaaatta 438

<210> 3232
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D2

<400> 3232

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tctctcttcc cgccggcgat ctcctccgct tctctccgat tttaagtcga tcgaatgggg 120

aaaatcaaga aagtgaatca aaggggtcat attgctacac cgtatccatc accatgttgt 180

aagaaagaat gggctggctc aacctgtcca gtatgcttgg agtctccaca caatgcggtt 240

cttctcctgt gttcgtctta tcacaaagga tgccgtcctt acatgtgtgc tacaagcagc 300

cgttttgcca actgccttga tcaatacagg aaatcctacg gtaacgaaaa ctcangacaa 360

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gcccggatgc atttaactcc 440

<210> 3233
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D5

<400> 3233

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tggtgaccag aacttaggaa gcaaacctta tagatcatga ggtggtaact gaatcatcat 120

catcagctgt gcctcaaacc gagaactata aaaggtggct tcgtgtctcc atatacgtaa 180

tctttgtcct cttttgccag ccactagcta caattctggg tagattgtac tatnaaaatg 240

gaggaaatag cacatatgtg gtaacacttc ttcaactcat tggcttccct gtacnggttc 300

tgttccgctt cttttctcga atcangcatc ccagatcaac agatacaant ttcaagtcag 360

tccccntcnt tcaacancct tgcatcggtt nacntgtgca ctggactgct antgtccgcn 420

tangcntatt tgtcgtaata gggttgccc 449

<210> 3234
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-D6

<400> 3234

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cttctggaga ttgctcaggt tcctgatgaa catgtcaatg agttcaaatc aattgagaag 120

ttcaagatat tcaacacaaa caacctatgg gttaacttga aggccatcaa aaagcttgtg 180

gaagctgatg cacttaaaat ggagatcatt ccaaacccaa aggaagttga tggagtcaaa 240

gttcttcaac tggaaactgc agccggtgct gcgataaggt tctttgacaa cgctatcggt 300

gttaatgtac ctcgctcacg gttcttgcca gtgaaggcaa gttcagactt gctgctcgtc 360

cagtctgatc tctacacctt agttgatggc tttgtcactc gaaaacaaag ctagaactaa 420

nccctcgaaa cccgtcaatt gaantgggaa c 451

<210> 3235
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-B7

<400> 3235

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ctgagaggga aagtgagaaa gcaaagtctg aagagatcat tggattttca agctcagcag 120

tctctattct aaaagatgct gagctttcag tcactgagat tgacgaaact tctctaatcc 180

acatggatgt tgatcaaagt ttcttgcaaa ttccacaatc tgttaaggct gcaatctttg 240

aaagttttgt gaggcagaac atatctgaag cggaagttga tatcaaccca tgtattaagc 300

agtttgtgtg gagtaattat gggtttccaa ccaaaagcag cacaggcttt gtatatgctg 360

atggctcact ancactattc aataaactgg taanttgttg tgctcaagaa ngtgggaacg 420

ctttgtttac ctgccnggta caaaatgg 448

<210> 3236
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H2

<400> 3236

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ttccgtcgag gaggaaaaag atatgaagat ggaggaaacc ggtgaaggag ccggcagcgg 120

aggaaaccgg tggccaagac cagagacttt agctctattg agaatacgtt cagagatgga 180

taaagctttt cgtgactcta ctctcaaagc tcccttatgg gaagaaattt ccaggaaaat 240

gatggagctt ggttacaaga gaagttcaaa gaaatgcaag gagaagttcg agaacgtgta 300

caagtaccac aaacgtacca aagaagtcgt accgggaaat ccgaanggca aaacttaccg 360

gtttttccaa agaatttaga ancntttcga gactctcaag ttcctaacaa ccctgaancc 420

tgaattccaa acccgcgaaa tccttctgc 449

<210> 3237
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H3

<400> 3237

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aaaactacca attccacggt atggctgatg aggtgttctc cttggtctct acccctgagt 180

tgcagatgaa ctctttgttc aaattcatcg cctctggtaa ctgcgagtac aacaacaccg 240

tctgctggtc tcaccctggt acctatttgg gtcaaatcgc catccagtat ggtaacgaga 300

agatcttgtt gcantctggt tctcactcgg anggtgccaa ccgttctggt caaacgacaa 360

aggcaantgg cccctaacgn ccaatgtnca aaaatnncaa tgcctccggc aaatcgaacc 420

ttgttcangt cccttggttg g 441

<210> 3238
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H4

<400> 3238

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aacgataata ctgaatctga gagtttaagt gttgttgagg aaccgaagaa cgataaagaa 120

ttgagtcttc gagctttgaa tcaaaatggt gatccattag ggcggagaga tttagggagg 180

aacgtagtga agtggattan tcaggcgatg aaagcgatgg cttcggattt tgcaactgcg 240

gaggttcagg gggagttttc ggagttgagg cagaacgtcg gatctggttt gacgtttgtg 300

attcaagctc aaccgtatct caatgctatt cccatgccat taaggttctg aaatcaattt 360

gtttgaaagg cttgtaccca ttaacccaac cntggtccat taatttccaa aagaaagttg 420

ccttgatgtt ccntcaaag 439

<210> 3239
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H5

<400> 3239

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ctctccttga ggctcttgac cagatcaacg agcccaagan gccgtcanac aagccccttc 120

gtctcccact tcaggatgtc tacaagattg gtggtattgg aacggtgcca ntgggacgtg 180

ttgagactgg tatgatcaan cctgntatgg ttgtgacctt tgctcccaca ggattgncca 240

ctgangtcaa gtctgtttan atgcaccacg antctcttct tnatgcactt ccangtgaca 300

acgttgggtt caatgttaan aatgttgctg tcaangatct taagacaagg tacntcgcat 360

ccaactccaa ggatgaccct gccaanggtg ctgctaactt caactcccaa gtcatcatca 420

tgaaccaacc tggtc 435

<210> 3240
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H6

<400> 3240

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aaagaaacaa catttcaata tacagattta cttccttta cagattttcc taaaaaaccg 120

aaattgaaac aaacaaaacc aaaagacgtt acctttttc cattgattcc tcaattctct 180

aaacaaatga gttaatcttc catggctgcc atgttgatgc agccatggcc accgtttctt 240

cctcatctaa ccctagtttt cttaacccta atcctctttt tccctaatca atcctttct 300

caatccgatt ctcctcgaaa catcgaaaca tttttcccaa atgacacaat caccctcca 360

agttcaatct ccggttctat cgccgccgca aaaccatcat cttcgtcatc ggattcaaga 420

cagaggaaat atcctgaggg ctgtgctata acaagcaagc aagcacttta cttgtagca 479

<210> 3241
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H8

<400> 3241

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aggtttaaga aaattgncaa gaggaacgat aatactgaat ctgagagttt aagtgttgtt 120

gaggaaccga agaacgataa agaattgagt cttcgagctt tgaatcaaaa tggtgatcca 180

ttagggcgga gagatttagg gaggaacgta gtgaagtgga ttaagtcagg cgatgaaagc 240

gatggcttcg gattttgcaa ctgcggaggt tcaggggggag ttttcggagt tgaggcanaa 300

cgtcggatct ggtttgacgt ttgtgattca agctcaaccg tatctcaatg ctaattncca 360

atgccattan ggttctgaaa gtcanttggt ttggaaggcn tgtactcant aancctacct 420

tgttcgattc atttccaaga agaagaagtt gcgttgatgt tcctcaaagn acct 474

<210> 3242
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-A1

<400> 3242

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ctcctactct gcccatgata ttctcagagc gtctttcatt gagaagtttc tggtctccag 120

aatccttttt gtgcacttaa gattccttct tggtgtttgg agaaagttaa gtgaacatcc 180

cagtgcagtg acttcaacat gttctcaact tctcttatca catttgattc gtcacgaact 240

attagtttac ctcctggtcc tactattcta tccacttctg ccattactgg gacaaagant 300

gcanctttca aaacaaaaca aaacaagaga cntaatggtt gatgaaacgt tancaaaagg 360

ggtggataat aagagttacg cctaaaacct ggtcncaact ttgagaaaag atgatntgca 420

tgtaagaga 429

<210> 3243
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-A10

<400> 3243

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gatccgaaac acgatttcgg aggaagcttc gattctacct attttcagat ctgaaatagt 120

tgtgtttgag aagcgggatt ggtgatcgga gctggaattt ggttggtaat cggaggtcag 180

agagaagtca acggatatgc cggaggaaga atcgatagat atcaaattca ggttgtacga 240

tggctccgat atcgggcctt ttcggtattc tgcggcttct actgttgact ttttgaagca 300

gagggtcgtc tctgattggc ccaaaaggca aaacaagttg ttncaaaagg ggataaacga 360

aattgaanct gataaacccc gggtaagaat cttggagaac aacaaagact gtttgggcat 420

tgttaagaca ccat 434

<210> 3244
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-A12

<400> 3244

gctttgtctg ttaggtttag agagatcctt tccaaagatc caaagctgga aactttctag 60

tcaatgctgc ttaagatctg actttttccc ttcaatgtcg ctctgaaatc ccctaaattt 120

ttgggcccat caggtgaata aagcggaggt cagaagatgg gttctggttt aaatgacaca 180

ttatctcgga actacaatgg tttggagcta tgggagataa tagtgattgt tctctccgcg 240

atattcgttg tagttttagc tatatcgcta tggcttactt tcagaagaaa aacctctaga 300

tcttcttcta atctaatccc tgttagtcgc cagattcctc ctaagtgttc ctgaagagat 360

taaagagatt agagtcgacg aggtttcttc aagcaatggg tggggaatgg ataccctcta 420

ntagtga 427

<210> 3245
<211> 511
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-A3

<400> 3245

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gaaatgctac tgtgacgact ctgtttgctt ctcttccttt tcttcctcgg caacaacaac 120

acccttcctc tcctcactcc ctatccgcca aaatctcttc ttcttccttt ttcttatttt 180

cctttcaata tctgatagct gcaaaacaga acccaccatg tctggtctgt ataattataa 240

taacttctca ccttctagag ccgcttctcc tcagattaga acccccttcct ccgatgttga 300

cagtcaatac atatctcaat tgttagcaag agcatcaaaa gcttggacct ttcatgcaaa 360

gtcttaccca tttgtagccg actcctaaat caagaaattt tccgggattc accgggaatg 420

atgcccaaac caaagggatt taacggattt tggataaggt tacgggaatc gaagtcccta 480

agtccaaatg ggcttcaaca aaatcctaat g 511

<210> 3246
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-A9

<400> 3246

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ctcctgctaa ctcttgagct ccccaaaggc ggctacatcg gttttgtcac ctctactcgc 120

tcacttttct ccgtccaatt ttgcagcttt tgaagatcaa gaggtgaaca ttcggagtga 180

tgaatcggcc aaaggttcag cgtcgtgttg gaaagtatga ggttggaaag acgcttggac 240

aaggcacttt tgcgaaagtt cggtgtgctg ttaatactga gacaggagaa cgcgtggctc 300

tcaaaatact tgataaggag aaaggtctta agcataagat ggctgaacaa gataaggaga 360

gaaatttgta ctatgaagct gataaaccat ccaaaatgta atgcggctgt atgaagtttt 420

ggcna 425

<210> 3247
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-B1

<400> 3247

gcccacgcgt ccggcaatct tcgctcttct ctttgcnctc tcnctcncan cgcggttcag 60

gatccgagtt tgggagattc aagctccctg aaaanagccc tttantctcg cttaccaact 120

ttgctccagc atggcaggat ntgcaccaga aggcacacag tttgatgcac gtcagtttga 180

ccagaaactc aatgaantac ttgagggaca ngatgagttc ttcacatcct atgatgangt 240

tcatganagc tttgatgcca tgggtcttca ngagaanctt ctcaggggta nttatgctta 300

tggttttgan aanccttccg ctagtcagca acagaggaat cgtccccttc tgtaaggggt 360

cctgatgtga atcaacaggc tcaagtctgg tactgggaan anaacanctt tctgccctgg 420

tgtcntgcaa caactgggac ctctcccgta tc 452

<210> 3248
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-006-Q1-E1-B11

<400> 3248

gcggaattta taatttttctt ctctgagaac tataaaccaa acgagttgtc caaaaagaag 60

agatcaaagt ttcttcttga agaaagaaag aaacacaaaa gctatggcat attcaactaa 120

actttatctt cctcttaaaa caccatgttt tgttccaaag acagtaagag caaagacttt 180

gatgcttcaa cagagtcaag ttcatgttaa agtcaagaaa gccacagttt cacagcctca 240

gccgatcaga tactccacca agaacattgt ttttgaagat ccgatacaag ggatcatctg 300

ttacacagat gataatggag aggttatatg tgaaggatac gatgaaggtc ctcgttgtcc 360

cacacagagt ccaatggtag cttcttactc aagagaggtg gagaatcctg atcttctgca 420

aaga 424

<210> 3249
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-B4

<400> 3249

gcccacgcgt ccgctttcnt tcatctctcc tcttctaccc aaaaccttct ccacctcggc 60

aacttctcta ctcagtgacc atgaaaacga cgaatccgcc gccaccataa ccgccgccgt 120

ctctgtccca atctcacctc tgttaactcc ggaagacaca caaaccgtag aaaagttcca 180

ttcaatcatc aaagaccact atcgcaaaaa ccctacaagc cccaacgacg ccatcttaan 240

ccctagctta actctccatg ctctctccct cgatttctcc caaattgaaa cttcccaagt 300

ctctccctcc gtcgtccgat gcgtgataga gaagtgcggc agtgtccgcc acggaatccc 360

tcttcaacaa tctctagctt tcttcaattg ggcaacttca cgaagacgga ttacgaacaa 420

caaatcacct catccgttac aacgaaatga ttga 454

<210> 3250
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-005-Q1-E1-H12

<400> 3250

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cttccttttg gttactgata atgaaataga gcgagtaaga ctaccaatta atgatggatt 120

agaggatgct atggacaatg ttgttctcag atttggacat gtggggaagc tcatgaatgg 180

catacgaaat gttgagtatc tggagttgtc tgctgatact ctcgaggtgc tttctctatg 240

ctgtgagtca atgccagtgt tcaaaaacct caaatcgtta gctattaaaa gtactgaagg 300

tcgaagatgg caagcaatgc cagttcttct aaggaattgt ccacatttag agtttctact 360

cattgaggga ctcttgcacc atgtcacaag ataaatgcgg ggatgcttgt gactgcttnc 420

<210> 3251
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D8

<400> 3251

gcggacgcgt ggggtgaaat caaagcaaaa aagagagaag gagaggtcgt gttagataat 60

tagagcgcac ttgcgagcaa caacgaacga cgacccactg attcaatctc ctcctctctg 120

catattcctt ggcatctttt ctggtaccga agctgagtct ctggagagtt tctagatctt 180

cttcaattct gcaattcaga gcgaagattt attagtgatt gattattcac tctggagctc 240

gagttctgga tccgtgtggc tggagggaat gttctgttaa gctgattgtt taggcttgtt 300

ggatcagtat agaaattgtc agattgagaa agacaacatt gaagaacggt atagctgagt 360

gccctgcatg tcattcaaaa ntggtctcac ctgggtaaca aaactaattt caaggcttat 420

g 421

<210> 3252
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-E11

<400> 3252

cttttacttn ccggtcccgg tccaaaattn ccgggtcgac ccacgcgtcc gaggtgaaac 60

aatcaaatct atgcaagcta agactggagc tagaattcag gttattcctt tacatttgcc 120

ccctggagac ccaacgccag aacggacttt gcagattgat gggataaccg aacagattga 180

acatgctaaa caattagtta atgaaatcat cagtggcgag aaccgtatga gaaactcagc 240

aatgggtgga ggctatccac aacaaggtgg ttatcaagcc cgcccaccct caagctgggc 300

accacctggt ggtccgccag cacaacctgg ttatggtggt tacatgcaac caggagcata 360

tccaggtcca cctcagtatg gtcaatcacc ttacggaagt taccctcaac aaacttcagc 420

tggttactat gatcagtcct ctgtgccacc atcccaacaa agcgcgca 468

<210> 3253
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-E3

<400> 3253

tctacagaaa caaaaatctg attgtttttc ccactttgca tctgttttga ggatgccagc 60

tacggatttt caaggatcat ttggaaggtc gttgctaagt ttacggcgag accaagttga 120

ctcatcaaca gtcgtctccg gaagtagtag ccaccacgag ccaagcacca tggaggttga 180

gctagattcg tttcaaagac aagtcgctga gaaattcatc gatctcaacg cttcttcaaa 240

cgaccttctc tctctcgaat ggatcggaaa gcttcttgat tctttcctct gttgtcaaga 300

agagtttcga gctatcgtat tcaaccaccg atctcagatc tctaaatctc cgatggaccg 360

tttgatttca gattacttcg aacggagcat caaaagctct agatgtctgt aacgccatcc 420

gc 422

<210> 3254
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-E6

<400> 3254

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ccaaagactt atcctgtgtg tacaataacc agcacgccaa ctaagtttgt gcactgtatt 120

gtatgggcaa aagacctgct ctttgcaaag ttgtttggcg acaagaatca agataatgat 180

cttaatgtgc gatccaacaa ttctgcaagc tcatccaaag aaacagaaga tgtatttgaa 240

cgttcagaag atgaagatat tgagcagtat ggtangaaga tatatgatca tgtgtttggt 300

tctaacattg aagcggcttt gtccaatgaa gagacatgga aaaatcgcag acgaccaagg 360

cctatataca gtaaggatgt cttgcctgaa agtctgactc aacaaaatgg gancactc 418

<210> 3255
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-F1

<400> 3255

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aaccgccgtg attggatctg gtgttctatc gcttgcgtgg gctataggtc aactcggttg 120

gatcncatgt cctacantga tgttgttgtt ctcttttgtc acttactact cttccangct 180

tcttancgan tgctacagaa ccggagatcc tgtctctggg aagagaaact atacttacat 240

ggacgctgtc nnatcaatcc tacgtggctt taggttcaaa atttgtgggc tgattcaagt 300

atttgaatct gtttggtatc acngtcgggt acacaatcgc aacatctaca agtatgatgg 360

cgatcaagan gtccaactgt ttccactaga gcggagggaa aaacccgtgt cacatgtcc 419

<210> 3256
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-F12

<400> 3256

accctcaagn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnntcaa atctttcagt tttgatctct aaatttccag 120

aaaatgagca acgataagga cagtttcaat gtcagcgatc tcacttctgc tcttaaagat 180

gaggatcgag ctggtcttgt caacgctctt aagaacaagc tccagaatct agctggacaa 240

cattctgatg tgctcgagaa tctgactcct aaaattagaa ggcgtgttga ggttttgcgg 300

gagattcagg gcaaacatga tgaaatagag acaaaattcc gcgaggagag agctgctctt 360

gaagccaagt atcaaaagtt atatcaagcc tttgtataac aaagcgttat g 411

<210> 3257
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-F2

<400> 3257

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gaattcgatg agtttaggtc gattgttcga tgtcctaatg ctcctttgaa ctattcttca 120

tctgttgatt tgcaattccg tggagatttg gtgaagaaga agatgaagaa acagagccgt 180

cgtgttcata attgggaaaa ggttggttat gaggcggtga ttgacggcga cacggtggtt 240

gtgtttgtta aaggattgac tcgaagacct cacaaggaat cagatccttc ttactataag 300

tgtcaatttg agattgagaa ttcggaggag aaagaggtga ctcaagctat tgctgctgcg 360

caagaagttg tgaggtgtgg tttgcctgag agtttgaagc taaatccaga gatgatgttt 420

cnagtgagtg ta 432

<210> 3258
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-F7

<400> 3258

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ccgcggacgc gtgggtttca gacaattttg gttctttttc ttttgtattt atacattctt 120

aatcttctac aaaacaaaag aagaaagaca catttcgtta gtagaaatgg cgggaaacgg 180

aaacgaaagt accggtggag acttcagttt ctcggctgcg gcggcccgtg atgcgcttcc 240

gaggatcacg actgagaagg gcggcaaatc tccagggccg gcagacgtct gccaggatga 300

catcgcaccg cgggtcaact ttcagaccat cgacgagctt cacagtctcc agaagaaacg 360

atctgcccct accactcctc ttagagatgg cagcgccagc ggagtcagcg gaactagtgg 420

tccgactact cctgtctcca accagacatg cctcaatccg tcattgaacn 470

<210> 3259
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-G11

<400> 3259

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aaatgctgat tgcaaaatca agatctgtga tttaggactt gctcgtgtct cctttactga 120

ttccccttct gctgtgtttt ggactgacta cgttgctaca agatggtacc gtgcgccaga 180

gctctgtggt tccttctatt ctaactacac gccggcgatt gacatgtgga gtgttgggtg 240

catatttgca nagatgctaa ctggaaaacc tttgtttcct ggcaaaaacg ttgtgcacca 300

gctagaactc gtgactgatc tgcttggaac tccgtcgccg ataactctat ccaggattcg 360

gaatgagaan gctagaaagt atttgggaaa catgaagcga aaggatctgt acctttcacc 420

anaaattccc antatcatct gtggcgcnga agttacttca 460

<210> 3260
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-G2

<400> 3260

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gatcactgtt aaaccctcac aanatttcct caggactant antctgcgat cgatcgtcgt 120

tatgataagt ctctaaagaa gattgatgat tctggattac attatcatgg gaggagcttg 180

ttcaaggaag agagatcanc aagttganga tattttaaac agangtgtct ctgganaata 240

tancannagt tcaagttcga aatggttagc tacntcgctc tctaggtctg gctccgatgt 300

taaacggaag aatggagaat gcccgtcgct tatgganctc tgtgtccgca agatacanga 360

ggacattgat agatatacca agttctctga cctacctaga gatacagtca gcagattttg 420

anga 424

<210> 3261
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-G3

<400> 3261

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ataagttgac atatatacta tatacaagta tattaattat acatatatgg ctgaccctaa 120

caatcctatc actgaaccta aagctataat ccaatcttct acttcatcgt cagttactat 180

tgtgccagtt cccacgtgcg gtgacagcct ctctgactct gccacgtgtg aaaacccttg 240

tccacttgan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnttaat ggccactgac accgacatct ctcgccggaa 360

aaagaatccg gtttatcggg gaattcgttg tcngagtgga aaatgggtgt ctgaaatccg 420

aga 423

<210> 3262
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-G8

<400> 3262

ggagaggttg aaggaagtag gtactgatcg gcaattgact ctggaggagt ttgagatttg 60

tgttggtacg tcaccgattg tgcttgagtt gatgaggagg caaaatgttg aagatgtttg 120

taaagactct gtggatttgg atactaatgt tagtggaagc agggtgacta aacatagaag 180

gagagggagt tggttaaaga gtattaagaa tgttgctagt agtgtgactg ggtataaaga 240

gcgacggagc accgatgata gggattcacc gtctgagaga ggtggtcaga ggtttagctc 300

tgcaactgat gatagtcgag atatgtcttt tcatgaccct gagagagtta aggttaggca 360

gtatgggaag tcgtgtaaag agcttactgc acttttcaag aatcaagaaa atcaagccca 420

taaa 424

<210> 3263
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-H1

<400> 3263

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ctcgtctctc cagcctccga aactccaaaa ggtctccatt atctctcaaa tctcgatcaa 120

aacatcgcca tcattgtcaa aacattctac tacttcaaat caaactcaag atccaacgaa 180

gaatcctatg aagtcatcaa gaagtcactc tccgaggttc tcgttcacta ctatcctgcc 240

gcagggagac tcacgatcag tcctgaagga aagatcgctg tggattgcac cggagaagga 300

gttgtagtgg tggaagctga ggccaattgt gggatagaga agataaagaa ggctatatcg 360

gagattgatc aaccagagac tcttgaaaag ttggnttacg aagttcccgg tgctcggaat 420

aatct 425

<210> 3264
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D7

<400> 3264

caaacaaaaa aaatctccac cgctctnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnacg caccaactgt tgcggctcaa agagatctcg atcgggatcc acaagacgga 120

gatagataga gagagagtga gagctaacgg aaatgggatc tcagctactt gagtgttgct 180

tccgtttcgt cttctactgt cactcccaca gctccaactg ttttccttga ttgtttttct 240

tttatctcgg cgttttactc ggaagcttac aacacactct ctcagggatt tgaaatcctc 300

acgtttcagc acattctttg tggttcccat ctattctcta gccagttcgg agttgcctga 360

agaaatcaaa tgggttcgag atacgcatct caccagctca acaatgggct tttgt 415

<210> 3265
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-B7

<400> 3265

tatctcacaa taaagacaan nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnna acaccaattc aagaaagaag gaagcttaag aagagtctat catcaatcaa 120

tggagtttca tcttgaacat cctctctcac attcttcact ccacaataac ttcaacgacg 180

acacagacta tgaaacttta ccacactctc tcttcctcgt cgagtttcaa cacatgcctt 240

cttctcatta cttccatagc ctcaagtcct ctgcttttct tctctctaat cgaaaccaag 300

ccatttcttc aatcactcag tattcaagaa aattcgacga cccatctctg acgtatcttg 360

ctgtgaatta tctagacagg ttcttgtcta gcgaagatat gccgcaagtc aaagncctgg 420

<210> 3266

<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-B8

<400> 3266

ggctggtcct gctgaagtaa ctgaactaac tgggccggat gtcatggaag ataagtgtgg 60

ttctgctgct atttgttttg tttctttctt acctgacatt ttggactcaa aagctgaagg 120

aaggaacaag tatctagaga tgttattatc agttgcagac aagtttaaga aagacccttа 180

cggctttgtg tgggtggctg ctgggaagca acctgatttg gagaagcgtg ttggtgttgg 240

aggatatggt tatccagcaa tggtagcctt aaacgcaaag aaaggagctt atgctccact 300

taaaagcggt tttgaggtta aacacctcaa agatttcgtt aaggaagctg ccaaaggang 360

aaaaaggaaa ttgcctatag accgaactaa gggagatagt gaagacagaa gcttgggatg 420

gt 422

<210> 3267
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-B9

<400> 3267

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tgaatttgcg aagtatggga gacgctagag acaacgaagc ctacgaggag gagctcttgg 120

actatgaaga agaagacgag aaggtcccag attctggaaa caaagttaac ggtgaagccg 180

tgaaaaaagg gtacgtggga atacacagtt ctggattcag agacttcctt ttaaaaccgg 240

agcttctcag agctattgtt gactctggat ttgaacatcc atctgaagtg caacatgaat 300

gtatccctca agctatcttg ggcatggatg tcatctgcca agcaaagtct ggtatgggga 360

agactgctgt gtttgtcctg tctactctac aacagattga accatctcct ggg 413

<210> 3268
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-C11

<400> 3268

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gttttcacag gaacgtcgat gaaatctcgg tatcttgtgc acgtacacat gtcggactca 120

ggttttaccg tgaagtagaa aacataaagg ggcgttgttt ttgttgccgt caaggtctga 180

cttttagtaa aatcacatta agaagagacg tcggagggaa aaacctccag ctacagaacg 240

gtgtaatcgt gtaagtggga atacattgcc atgagaacgt ctttctcttc agacgctgta 300

tataaagcgc atgttgctgt gtttatgtcg attttttca agtaaaatta taagtcaaag 360

aattcaatta ttcactgtat tgtctanctt tccaagccga aaagtccaat a 411

<210> 3269
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-C2

<400> 3269

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ttttttttac caaattaaca atttttgagt ctccgttgcc tctctcagtt gaagcgtctt 120

ccttctctct atcgaatgat ggaggccaaa ccaaaaagga ggattgttac agagaatgga 180

gatacaggtg aagatttagt tcttgcaaca ttgattggaa acggtgatga tgtaggtcct 240

ctcgttaggc atgctttcga aatggggagg cctgagcctc tcgttcatca gctcaaaaat 300

gtggcgagga agaaggaagc tgaaattgag gatctatgca agactcacta tgaagaattt 360

attgttgcag ttgatgagct tcgtggtgtg ttagttgacg ctgaanag 408

<210> 3270
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-C3

<400> 3270

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tgttcctctt cctctacggc ttttctccgg ttatctccga cggctccgat caccgttaca 120

aggtcggtga tgatgttcct ctttacgcta acaaagtcgg accgtttcat aatcccagtg 180

aaacatatcg atactttgat cttccgttct gttcatcagc tcctgttaag gagaagaagg 240

aggctctagg ggaagttctt aatggagatc gattagtcag tgcaccttac aaacttgagt 300

ttttgggtga gaagaactct gaagttgcat gtagaaagag gttgagtaga gaagacgttg 360

ctaagtttcg tgatgtgatt gcgaaagatt aatactttca gatgtattaa gatgacttgc 420

caatt 425

<210> 3271
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-C5

<400> 3271

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atgtgaagaa tgcaaagagt gcatatctcc aaagagcaac tggtgcacaa aatatacaaa 120

cgattattta tcaaacacaa gacgatatgg aatgacttca agattcaagg actctcgtgg 180

agaagatatt caccatttca tctttgtctc aagttttact gaatataccg ttgtagatat 240

cgcacatctc gtcaaaatat ctcctgaaat tcccgttgat atagcggcct tgctcagctg 300

cagtgttgcc acaggacttg gagctgcgtg gaaagtggct gacgtanagg aaggttccac 360

tgtcgttatc tttggccttg gtgctgttgg actaacggtt gcanaaggag tcag 414

<210> 3272
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-C6

<400> 3272

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agctgcgaga accatcgacg cggntaatct cacttgctta cattcactcg atgtatcaac 120

ggtcggagac ngtcgacgtt agagaacttt cgagagttta tggttacgca gtgaccatga 180

gaatgttgtt tggaangana catgtcacga tgagaaaaca tgttttcgga tgacgggaga 240

ctngganaag ccnacaaaca tcatcttgag gtgattttca ncactcgana ctgtttgcca 300

tgttttagtc ncgtgganta cgtggacnca aggttaggtg gttggtatat tgatggtgna 360

gaggagagag cgatagtgaa tgttaatctt gttcgnagtt acaacaatcc cataattacg 420

aag 423

<210> 3273
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-C7

<400> 3273

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ggtccaagat gaagtcaacg gcacaggagt tttcgctttt tgtgttctga gaaatttcaa 180

tttgtcatac atcaagctaa cgccagaagg atcattgagg attacacgga ataatggaac 240

cgactggatc aagcactttg agggtccgct aacctcgtgt gatctatatg gtagatgtgg 300

acctttttggc ttgtgtgtga gatccggtac tccaatgtgc caatgcttaa aagggttcga 360

accaaaatca gatgaagagt ggagaagtgg gaattggagt cntggatg 408

<210> 3274
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-C8

<400> 3274

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gacccctttc gtatcttcct tctcattttt ttgccaaatt tattcgatcc gtctttcact 120

atgtatccga tggattctga ttaccatcgc cgtggtctgg tggcaaacga tcgttcacca 180

gctcagtttg ttaggctgga taaaccgaga gccgtagacg atctctatat aggcaagaga 240

gaaaagatgc gtaggtggtt gtgctgtgct tgccacgttg aagaaccttа ccattcttct 300

gaaaatgaac acctcagaag ccctaagcac cacaatgatt ttgggcatca cactagaaaa 360

ccacaggcgg ctgtgaagcc tgatgctttg aaggagcctc catctantga tg 412

<210> 3275
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D1

<400> 3275

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aaaaagtccg attctttgcc ggtgtttgac gatcctggtc gagatggtga tgatcttctc 120

ttcaaagatg tgtttagtgg accaccacca ccaaagtacg gatcttcttc tggtgattca 180

cgttctccat ctgctcctgc ttttgactat gatgctatgt tcaaggaacc caaatccaaa 240

tcagngtcgt ctatgccggt ttatgacaag cctgtgtatg atgatgagga tgtgtttgag 300

tctattcctg agctcaaaat cccttccact tcttctcaat cagctaggtt tgagaatgtt 360

ttctcttcta tctcatcttc tcctacgaag cacangaaac aagaacaatt ctccctttca 420

a 421

<210> 3276
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D2

<400> 3276

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aaatggtgag actgttcaaa gtacgtcacg caacagctca catgttcaag atagaccatt 120

tctctttact cagaaagcat ggaatcgaaa aggtcgagtc ctctgttttc gatctcgctg 180

gtcacaaatg gaaactctct gtgcacccaa atggncatac aaatgctaag gggacacatt 240

atgtctccct ctacttaatg aatcaagctc cggtatatga tacgcttaca tatgagcttc 300

ttgccgtcag tcaacttgag ccaaaatggc acactcacgg aagagatgaa tacgaaacca 360

atgaagaact gggtagtgag gggtttcgtg agttcatatc tcctgttgat cttaanaaaa 420

atgg 424

<210> 3277
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D3

<400> 3277

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cccagatcga aaaatcagat ttttccagat caatcagaga gttagngatg gngtatanta 120

acaacaatca gcaatctttt tggcagttca gcgaccagct gagagttcag acaccgaatc 180

tagcgaatct gtctctcaac gactcgatct ggagcacaaa ctctgtcttc aaanagcgtc 240

gaaacttaga catagccgcc accaccgaca agaacaacaa ccagatcgac tattatcaga 300

agaagacaac ttccgacaac atcaattcca actggaactg gaagtcttct ggttcaaaca 360

acgacatggg tttaggattc ggacctgtgg gttcaaaatc caacgtcgat ttaaanccaa 420

tcg 423

<210> 3278
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D6

<400> 3278

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cgttagggtt tcacggcgga gattcaagtt ctttgaccta ggaagctttc actatcaccg 120

gagactattt caatggcaac catggctagg tcgtttctgc aggcgatatc gaaggatgag 180

gcggtggctc ctccgcttag agttgttcag atcgaaggac tggctgtact aaagataatc 240

aaacactgca aggagttttc accgaccctt gtcactggac agcttcttgg acttgatgtt 300

ggtagcgtcc tcgaagttac caattgtttt cctttcccgg tcaggnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngaagttaat 420

g 421

<210> 3279
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-B4

<400> 3279

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ggaatgagaa gatgcccgtt aaagatctaa cgaatctaag atacttccag ccgacatata 120

tatgcgtgga tggtgatggc acagtcccga tggaatctgc catggcggat gggcttgaag 180

cagtagcaag agttggagtc cctggtgagc accgaggaat cctcaacgat caccgtgtct 240

tccgaatgct caaaaaatgg ctaaatgtag gcgaaccaga cccgttctac aacccagtaa 300

acgattatgt catccttccc accacatatg aatttgagaa attccatgag aatggactcg 360

aggttgcttc cgtgaaagaa tcgtgggaca tcatatcaga tgacaacaat atccgcacaa 420

ncggg 425

<210> 3280
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H10

<400> 3280

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gtcagttctt gacagagaac ctcttttcat tggcatatct gtcagctcca ctgaaaaggc 120

ttatanaaca gttgatattg ggccagatgc tgaaaacaag atagagattc cggaagtttt 180

ggggtgagaa gtctgatcta aggaggttta aagatggaag aatatctgaa agcacagttt 240

gggagactca gcagtggacc aaacatctta tcatgaaaca aattgttgaa tatatcctta 300

agcggcatct ttcactgacg tccgatgaca ttgtacaatt agtgggatca acttgattct 360

ctctaaaact atgggggcaa agacccanta tcnttatctg ggnaatttgg ttcaagccta 420

agaaagttt 429

<210> 3281
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H12

<400> 3281

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cggagttaca tgattcattt acngccttta ggggaccctg tattgcccga aatgctgttg 120

aagatactag aaccttatcg gaaagaaggt tgcttgctgg acgatgaaag agcaaaactt 180

tacgctgatg tggtcaagaa aggttatgct gcaagatttg cttttgcagc ttctgttttt 240

ggtgaaacct cagaagcact tttctggttg caacttcctc aagccattcg ccatctgatg 300

aacaagctaa cgagaaggtc tccgcagaaa atctcttccc ctactttaga ctcaggagct 360

gatgaagtag ctatgccgag taaaatacca tctactggat taaccgtcac ctgaaaccaa 420

gaaagataga ctcctaagtt gtgatnggtt ca 452

<210> 3282
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H2

<400> 3282

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cccattgcaa ttanggtttt caaaacgggt aatcgaattc ggtggtgctc ggctttgaaa 120

ttgaggatga gatcctttcc acttccttct acctgctgac aatgggcaac tgcggtacta 180

gagacgaggc tgccgtcttc actcctcaag ctcaagccca acagctccag aagaagcact 240

cccgatccgt ctcagatctg agcgatccat ccactcctcg cttccganac gactctcgca 300

ctcctatttc gtatgcccaa gtcatcccct ttacnttgtt tgagcttgag aacatcacca 360

agagctttcg cccaaattat atactccgga gaaaggtggt ttcggtaacg ntctacaagg 420

ggttacattg atgacaatcc 440

<210> 3283
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H4

<400> 3283

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gatgagacag aaacccagaa actgaaanac aaaaacccaa ctcgtganat ttcgttccga 120

ccaaatctgt ctgatttgtg atctgaacaa agtacggtaa tggagttgat ggctaaacca 180

accttctcca tcgaagtctc tcaatacgga accaccgatc taccggcgac ggagaaagct 240

tcctcttcct cttcctcttt cgagacaaca ancgangaag gagtananga atctggtcta 300

agtcggatct ggtcaggaca aacggcggat tactcatcgg atagttcatc aatcggaact 360

ccgggagata gcnaataaag acgaagaagg aagccaaaac gaaaaccaat gacntt 416

<210> 3284
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H6

<400> 3284

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngg agttaataga 120

tctggaatcg agaaatcaac aactgaagaa caacggcaaa gattcggttt ttagcagaac 180

actcaggaag ttttcactca aacatcatcg aaaaattcca gattccggga acagtcttgg 240

tcgtcgttca tgtgatgtag atcctaggtt gtctcttgac gcaagtcgaa gtctctttcg 300

acgagcctag agcttcatgg ggatggatgt ttgattggaa agacatatcc aaagctgata 360

cctttgtcct ctgtgactga agacgttaaa gcctcgccgg agaagataac cggtgagaag 420

gtanaggaa 429

<210> 3285
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H8

<400> 3285

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ctagatccga tggcgaaaga accagttcgt gtgctcgtta ctggagctgc aggacaaatc 120

ggatatgctc ttgtacctat gattgcaagg ggtatcatgc ttggtgctga ccaacctgtt 180

atcctccaca tgttggatat tcctccaact gctgaagctt tgaacggtgt taagatggag 240

ttgatcgatg ctgctttccc tcttcttaaa ggtgttgttg ctacaaactg atgccgttga 300

gggatgtact ggantcaaag ttgccngtta agggttggtn ggtttcccga agggaaagaa 360

aggtatggan aaggaaggga ttttnacgtc caanaatgtt tccag 405

<210> 3286
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A1

<400> 3286

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caaagtttga ccgaccacct cttctccact tagcattcca agcacttgat aggttttcgt 120

ctcaagcagg ccgatttccg tttgctggtt cagaagaaga tgctcagaaa ctagtggaaa 180

ttgcagttga cattaatgag ggtttgggtg atgcaaggtt ggaagatgtc aactctaaac 240

tgttgcggca tttggccttt ggatccaggg ctgttctgaa tcctatggct gcaatgtttg 300

gtggcattgt tgggcangag gttgtcaagg catgctctgg gaaattccat cctatctttc 360

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ttaaacac 428

<210> 3287
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A10

<400> 3287

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cttccgctct tccatacgcc gagaacacca agtcgctaat ccgtcaacac ctcctcaacc 180

taatctcttc ctacacttcc ctcgacccca aaacggcaac gtttacacac aacgatggcc 240

gatccgtgat tctcctccaa gccgacggta caatcccgat gcctttccaa ggcgtcagct 300

acaacatccc cgtcgtgatc tggctcctcg aatcttaccc tcagtatcct ccttgcgttt 360

acgtgaatcc tacacgcgac atgatcatca aacgacctca ctctaatgtc tctcccttcn 420

gg 422

<210> 3288
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A11

<400> 3288

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agggttttcg gagatctctg tgattcctct gaatttgtcg aatttttgg aggaggcgtt 120

agaagtcggg cttcttaaaa atcagatctt ctgctcaggc tttaatcggc gacgtctggt 180

attgggatct gtgacacaaa aagctgcgtt ggagactatg gaagaagttc agcctccagt 240

gaccccgccc attgaaccaa atgggaaaag aagcgaagcc tctctcttgg acatatgcga 300

gaaagttctg tctcttgatg ggagcacttg cgatgaagct ttgaagttgt ttacaagaaa 360

ccaaacgaat tttgtcaagc aagcatgtct aacattggaa gtggnacgcc gggaa 415

<210> 3289
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A2

<400> 3289

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ttcctcttcc ttcccctcca aacaaccgcc aaaaaaacct acatcaacng cgtcaatcan 120

tccgataaac cggaatcatt cctcactcac cacgattggn acacatctca actcaattca 180

agaatcatct cttctctaca cttacacaac ctccttccaa ggnttctccg cttaactcga 240

ctccaacgaa gccgattctc tcctctcctc ctcaaactca atcctcgata tcttcgaaga 300

ttctctctac acacttnaca ctaaggcgtt actcctggag ttttctcggg tctcaaattc 360

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gnttta 426

<210> 3290
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A4

<400> 3290

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cgttaatctc ccaggtgttg ttgtggatct cccaactcta actgagaaag acaaagaaga 120

catcatgcaa tggggagtcc cgaatcaaat cgacatgatt gctctgtctt ttgtcaggaa 180

aggttcagac ttggttcaag tccggaaact tctaggaaag cacgccaaaa acattcttct 240

catgtctaag gtcgagaacc aagaaggtgt ggcaaatttt gatgacattt tggtcaattc 300

agacgctttc atgattgcta gaggagatct gggcatggaa atcccgattg agaagatctt 360

cttagctcag aaggtgatga tctacaaatg caacatccan ggaaaacctg tggtcacaac 420

aact 424

<210> 3291
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A6

<400> 3291

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tgcctcagat ctggctgcga tttcaaatct tccttagttt ctctcgcatc gctcggccgt 120

tgacggtccc gtcctttccg tggatctgat tctggccccg gattctctcg ccgcgatctg 180

aggtcaaaca tggcggctgc taacgcgccc atcattatga aggaggtcct aacgcttccg 240

agcgttggga tcggtcaaca gttcatcacc tttacaaatg ttactatgga gtctgataag 300

tacatatgtg tacgagagac ggcaccgcag aacagtgttg taattatcga tatgaatatg 360

ccgatgcaac ctttaaggag gctataactg ctgaatctgc tcctaagaan ccaaac 416

<210> 3292
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-A8

<400> 3292

gcccacgcgt ccgatcctcg nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

ataatggcgt cgatccctcc gccggagctt gacaacgact cactggcgtc atcgccgaga 120

tcggagtacg atagtcagcc acgcgtacgg ttcatgtgta cttttggagg aaggatcttg 180

ccacgtccgc cggataatca gctctgttac gtcggcggcg ataatcgcat ggtcgctgtt 240

catcgtcaca ctactttcgc ctctctcctt agtaaacttg ctaaactctc cggtaaaagc 300

aacataagcg tgaagtacca gctaccaaac gaagatcttg acgcgttgat ttccgtatca 360

acggacgaag atgtagagaa catgatggac gaatacgacc gcgtcgcaca agaatcaaaa 420

ccca 424

<210> 3293
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-B2

<400> 3293

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aaatggattg gtcatccaag atttgagcta attcgtcatg atgtgactga acctcttttc 120

gtcgaggttg atcaaatcta ccatttagca tgtcccgctt ctccaatttt ctacaaatac 180

aaccccgtta agacgataaa aacaaatgtg attggcacac ttaacatgtt aggactagct 240

aagcgagttg gagcaagaat tttacttact tccacatctg aagtgtatgg tgatcctttg 300

gttcaccctc aaaccgagag ctattgggga aatgtaaacc cgatcggtgt tagaagctgt 360

tatgatgaan gaaaacgtgt tgccgagact cctatgtttg attancat 408

<210> 3294
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-B3

<400> 3294

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gtcgtcatga tgcagcagcc acctccagct tccaacggtg ctgcaacagg gccagggcag 120

attccttccg accaacaagc ttacctcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngtctgcacc gtcttctggt 240

caaccacagc agcagcagta tggtggtggt ggatctcaga atccaggatc agctggtgag 300

atccggtccc tgtggatcgg tgacttgcag ccatggatgg atgagaacta tctcatgaac 360

gtctttggtc ttactggcga agctacaagc agctaaagtt attcgcaata aacagaacgg 420

gtantc 426

<210> 3295
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-003-Q1-E1-H1

<400> 3295

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agcctcttct tgttcgtgat ctctcttcct ccggaaaaag atgtcggccg gtaacggaaa 120

tgctactaac ggtgacggag ggtttagttt ccctaaagga ccggtgatgc cgaagataac 180

gaccggagca gcaaagagag gtagcggagt ctgccacgac gatagtggtc cgacggtgaa 240

tgccacaacc atcgatgagc ttcattcgtt acagaagaaa cgttctgctc ctaccacacc 300

gatnaaccaa aacgccgccg ctgcttttgc cgccgtctcc gaggangaac gtcagaagan 360

tcaacttcaa tcaacaantg catccntaac atcgttaacg anagaatcag gacaaaggtg 420

gtaaaaggaa 430

<210> 3296
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D3

<400> 3296

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aaggagagac atacgaagag attgtggggt tagctagggc aatgatgnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn tcttctgctt gtggaagtgc tgatgtacta gaggcactag 300

gagtggttct ggacttggga ccagagggca ttaaaagatg tgttgaagaa ggggggatcg 360

ttttatgatg tcaccaatgt atcatccagc tatgaagatc gttggtcctg ttcggaaaaa 420

gcttaaaatt aaaactgttt ttaacataat gggacctaag cctaatcctg ccaagagttc 480

ctaagccgtc gttgg 495

<210> 3297
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D4

<400> 3297

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ggctgaaagt gaagcttctg tgaggtaccc gggatgatcc gtatgataga atatgggaat 120

ctgatttgca aaagaagcct aattatcttg tggatgttgc tgctgggact gtgcgagtgt 180

cgactacatt gccaatcgaa agcagggtcg atgacagacc gcctcagaag gttatgcaga 240

cggctgtggt tggaacaaac gggtccttaa cttacagaat gaacctagat ggcttccctg 300

ggttttggtt gggcattcac atactttgct gaaatcnaag gatttggctg aaggatgaat 360

caagggaaat ttaaattaat tctanctgaa cancctgagt atancaaatc cggtttgtta 420

acatcaangg aaaatacaca gagaccgtta cnccgttt 458

<210> 3298
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D5

<400> 3298

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tgtttgttgc ttggttttga agccggcctt tgatgggtgc ggcagaatct ggaaccgatc 120

ggagaagctt agcttatgga tttggagttt ctctgtgaat gaatctctgt ttgttatggg 180

gaagaatacc gtcgaggagc agaatctccc tgtgagcgac ggagctgctt cggctaggaa 240

taacggaggt ggaggaataa gcacatgttg ttgctgtgat tggatctcta gctactttag 300

tctcagatgc gttttgantc ttgctttttc tgctgctgtg tntctctccg ccttgttntg 360

gttacctcca ttcctcggat ttgcangatn caagggatct anatctcgat ccaaggttta 420

aagatnacag aatantggcg anttttgang ttggaaaacc aatttcgttc aagggaaaac 480

aantttaggc 490

<210> 3299
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D6

<400> 3299

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cttgtaatcc atttcagcga ttagatataa tcaaaacttt ttcaacttgt agtggccaaa 120

ttttttgttt aatggttgta aagatatcga aaaagttttt tgatgttaaa gataaagaaa 180

aaattgattt accacctggt ttcagatttc acccaactga tgaagaactt ataacacact 240

atctaagacc aaaggttgta aactcttttt tctctgctat agctattggt gaagttgatc 300

tcaacaaagt cgagccttgg gacttgcctt ggaaggctaa gcttggggaa aaagagtggt 360

acttcttttg cgtaagagac cgaaaatacc cgactggttt aagaacgaat cgtgctacta 420

aagccggtta atgggaaagc tacang 446

<210> 3300
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D8

<400> 3300

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aatattttgc ttcatccaag gtcttgaaga tgggtataaa agtttcatca aagatcaaaa 120

gaattctcgc atccacagct tcaggtagtt caaatcccaa agatggtgct gacgtggatg 180

tccgagagga atatgcaaac gcctttcgta cggaatcata caatcacttt tggacacgtg 240

tcgtacagct aagccgcaaa aagtccgcag tgtcttcttc ttcttcttct ccaccaatcg 300

aatcatcctc cacgtcagct cgtctcatgt cttatccgcc tattcgcgca caatcttcta 360

nacccgggnt ctgantanca ttactcgggt actaagatgt aaccccgggt cngggcgaca 420

cacccgaaac tcntctctct gattacttt 449

<210> 3301
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E1

<400> 3301

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ggatatataa tctcactgat ttgtttcttt ttttgttctt gtttcgtttt ctatatgttt 120

atggatgagt tgtagtttcc atctcccagc cggatataga aagaagaaac agaggaaatt 180

tgttcataaa ggaggtacat atatacacat acaagtctct gtgaaatatg acatctcagc 240

taaaacgaac tttaaccaag agatacggtg ttcttgaact gtgggagatc atagtgattg 300

ctctctttgc aagccttcat agtaatcctt gtcctttcaa gtttggctca acttcccgta 360

aaaagtccaa aagatctaat gctacaacgc ttcctgtaac tcaaagccct cgcnttaacc 420

gaagaaataa aagaaataaa gtgttgatc 449

<210> 3302
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E10

<400> 3302

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agctggataa tcggagggct cttgcttgct tcacagtatt ttcttatatc cgtctggtat 120

attcttcaga ctcgtgtcat ggaggtttac cctgaagaga taaccgtagt cttcttctac 180

aatttatttg caacactaat ctcagtacca gtatgtcttt ttgcggagag caacttgact 240

tcttgggtgc ttaaaccaga catttccctc gctgcaatca tatactcggg agtcttcgtt 300

tcattattca gcgcgcttac ccacacatgg ggtctgcatc tgaagggtcc ggtatacata 360

tccttgttca aggcattgtc tantgccatt gcagtcncca atgggtgcna aaatcctcgg 420

ggatgc 426

<210> 3303
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E12

<400> 3303

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tttatgaagc aactgagcta ataaaaagct tcttcttaga ctcggaagaa gataaaaaac 120

agaatcttta ttgtttaaag cttccaaatt cgagaagaga atttgaaacg accaagttca 180

gganatncgt ttcttcgtct actttggtct cttcctcttc tctttcgaaa agggtttatt 240

ctgtcttaaa agaaaccttt ttgagagggt aaaaaaagct tcaattttca gagaaacaca 300

aaaggcaaga aacagagaaa aacaaatcat ctaattcatg aaacanggtt caatgaatan 360

atcgtgtctc tgtantgtcn taancaccac tgctctgatt tgtggtgctt acntcatttg 420

ca 422

<210> 3304
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E5

<400> 3304

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ttggaccagc tactgttgga ggcgttcaag ctggagcctt taaaattggt gacacagctg 120

gaactattga caatatcatc caatgcaagt tgtacaggcc tggatctgtt ggctttgtct 180

caaaatctgg tggcatgtct aatgaaatgt acaataccat tgcccgtgtg acagatggga 240

tctatgaagg cattgctatt ggtggggatg tgttcccggg ctcaacttta tctgaccata 300

tcctgcggtt taacaacatc ccacaagatt aagatggtgg ttgtacttgg gagaacttgg 360

gaggaagaga tgaatattcc tccaagttga aagccatgaa acaagggaaa agttgaccaa 420

accantggtt gcttgggtca gccgggactt gtgcacgtct att 463

<210> 3305
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E6

<400> 3305

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tccgtcttta taactaccat attctcaatc acaacactcg ccactgtttc gaatagatgg 120

cttctatttc aacccctttt ccgatttctc tccacccaaa aaccgtacga tcaaagccgt 180

tgaaattccg agttttgacc cgtccgatca aagcttccgg gtcagaaact cctgatctaa 240

ccgtagcgac acgaaccgga tccaaagatc tcccgatccg aaacataccg ggaaactacg 300

gtttaccaat cgtaggacca atcaaagacc gttgggatta cttttacgac caaggagctg 360

aagagttctt caaatcacga atccgtaaat acaactccac ggtgtacaag agtcaacatg 420

ccaccgggag cttttatcgc cgagaatcca caagtcgtgg ctttactcga cggtaaaagc 480

ttcccggttt taatcgat 498

<210> 3306
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E7

<400> 3306

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnag caaccaagtc atggcagaaa 120

tcaccgacga gttagcgaca ttgatggagg ttaaaacaga gcttgaccca gaagacaaac 180

acttagcttc atggagtgtt aatggagatc tgtgtaaaga ctttgaaggt gttggttgtg 240

actggaaagg acgagtttct aacatatctc tacaagggaa aggcttatct ggtaaaatct 300

ctccgaacat tggaaagctt aaacatttga cgggtttgtt cttgcactac aatgctcttg 360

ttggagatat tcctagagaa cttggtaact tgtcggaact tacggatctt tatctcaatg 420

ttaataatcc tctccggtga gattc 445

<210> 3307
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-E8

<400> 3307

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ggggcatgca tttgggggaa gcattgtaca ctgtggaggc aaggcctgcc gttgcaggca 120

agcacgaagc aatgtgggga tgtcgcatgt gatctactga cggctgacaa gagggaggtg 180

gcggaggagg ggtggtgttg ctatgatgtg ggcggcggct gctgttactg ggcgcatctg 240

ccctgtactt gctacggtgc tgcgagccat gtactgctgg agatccaaag agttgtgcgg 300

ctgctgcctt gccancagtc tgctgacgtt ttctgttgtc atgcacactg gggaaggcat 360

ggcatggtgg gaactggccg gccgcanctg gcatactggc tgtttggcng ctgttcatg 419

<210> 3308
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-E9

<400> 3308

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cgaagctctt tacccggaaa ccattgaaat cggacggttt agtgaaaatg gaggatcaag 120

ttgggtttgg gttccgtccg aacgacgagg agctcgttgg tcactatctc cgtaacaaaa 180

tcgaaggaaa cactagccgc gacgttgaag tagccatcag cgaggtcaac atctgtagct 240

acgatccttg gaacttgcgc ttccagtcaa agtacaaatc gagagatgct atgtggtact 300

tcttctctcg tagagaaaac aacaaaggga atcgacagag caggacaacg gtttctggta 360

aatggaagct taccggagaa tctgttgagg tcaaggacca gtggggattt tgtatggagg 420

gctttcgt 428

<210> 3309
<211> 268
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-F12

<400> 3309

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gctccaacgg tcgagttgtt gctgttacac tttccgcttg atttagaact tgtaggtctc 120

tttggaatgt tataaaaagg acctcttcgg ctttttgta ttaatcaaca gctacgtaca 180

aataagccga agaggtcctt tttatacgta gctgttgatt aatacaaaaa gagaactctt 240

ctcgcaaaaa aaaaaaaaaa aaagggcg 268

<210> 3310
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-D1

<400> 3310

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attcagatcc tggttgatgg agaaccaagt taaagctgat gagcatgtgg ttacagtaaa 120

gattgcctaa gtgaaaagaa aggagaattg agtcttcatc ttcaatagac caaggttagt 180

aagcgtgagg aattgcgtgc aatattttgt tcgtgtgtga agttcaaaga aaacgttttt 240

ggcaagatca gatgaaaaca tgccgtctta gtctatatgg cggggcagtt gctcaggttt 300

agttgtctcc ctcgtttggg ttgtcgtctc cctcgtttgg gcttaagctt ctcttcctcg 360

actatattac ttccgntaat ttgggggttg agccttttgg gtaagtcctg ggtctatcct 420

canttantaa taaaccgatg ttttggctta a 451

<210> 3311
<211> 507

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-A3

<400> 3311

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agaagaagag agagactcgt aagcaacaat aaccaatagn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnngac gtcgtcttcg gctttgtagc 180

atctcgccga agcgtcgttg atttgagaga gacccaattt ggattgttag aaaatgggtt 240

acataggagc tcatggtgta gctgctctta agaaacacaa atacagtggt gttgatcact 300

cttatcttgc caaatatgtt ctccaacctt tttggaaacg ttttgtcaaa atcctccctc 360

ctatgggatg gcccccaaca tgataacact taaggggtc angtttcctc ccanatcctg 420

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ccaactttgc acacgggtta cttctgg 507

<210> 3312
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-A9

<400> 3312

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ctactctccc cctccggttt accactcacc ancancacca naaaaanatt acgtttacaa 120

gtctcctcct cctccggtta agcactactc tccccctccg gtttaccatt ccccaccccc 180

acctaaaaag cattacgtct acanatctcc accaccaccg gtgaagcact actcacctcc 240

tccggtttac cattccccac caccccaaa gaaacactac gtgtanaaat ctcctcctcc 300

tccggttaag cactactctc ctcctccggt ttaccattcn ccaancccca ctaaagaaac 360

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cattcccc 428

<210> 3313
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B10

<400> 3313

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agagcacttt ctggagtctc atctgtgcaa tttccatggg tgaagatgtt taaagagtct 120

cctttgtcta agctgattga agttccgtta gctcatattc cggaaccagt gtataagaca 180

tcagttgatt ggatcaacca tcgtccaatt gaggcacttg gagcctttgt gttgtgggct 240

tttgattgta ttctcacaga tttagcagca caacaaggtg gtgctaaagg tgggaagaan 300

ggtggtcaac anactacttc caaatctcan gtggcaatat ttgttgcatt agcgatggta 360

ttgcgtaaga agnctgatgc tttgactaat gtatgccaac tcctgangga agaatcccaa 420

attac 425

<210> 3314
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B11

<400> 3314

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ggtggaggtt gtttccaatt taaagtatgt acctttaggt tagaaattag gcttatttgt 180

ttctccagtg ggtttcattg tagaaacaaa ttgaatttta ggtgttaatg tgagattagg 240

aaacagaatc tctgctttta acaaggtaat aggagaatag ggtttagtag aagaaaggtt 300

aaaactttgt gatgggtaat aanttgggaa ggaagaggca ngtggtggaa gaaaggtata 360

caaagcctca angtttgtat gtgaataaag atgtcgacgt ta 402

<210> 3315
<211> 447

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B2

<400> 3315

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cctttggttg ggtaatttag tctctgctca tagnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnaac caattgaatt 180

agctaagctc agagatcctt cttggtttgt gttttgcgca agtcagtttc tctctggtta 240

tggaattgcc tttatgtcct ttgctcttct gctttgctgg gtcctcttgg gcnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnngcagc 360

gtcatctaca agctcctttc tagcttcttt gaggtttgaa nttgggctac aagcgtcaca 420

agtggaacga ttaacatgtt cctcncc 447

<210> 3316
<211> 450
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B3

<400> 3316

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gaatcaggag gttctggtgg gaaagataaa accaaaaaac ctgcttgcga tgatatcata 120

gggcttgatt ccttgaaaca gttcttgtta tacatagcca aaggtactga gattaagaaa 180

gatacccgag taaaaaagag cattctctgt gcggctggca agatggaaat tcgatcagat 240

ctgatggatt ctcatatata tgccttcaag agagcagttc tgcaggaagt tttggatcaa 300

aaacctgctt ttaggagcct aaaacaggat gtactaccgt atcttgttcg tacacagctg 360

agatnagatg tcctctctga ccaaagtaat gtnnaagaaa atgggaatgg gaatgggaaa 420

aataatatgc agaacaacga aggtgggcct 450

<210> 3317
<211> 453

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B4

<400> 3317

ggannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna aaccaccccc tcttcaccgg 120

acccaccgcc gtcgcgccgc caaacaacat ccatctctat caagcagctc ctccgcagca 180

gccacaaaca tctccaagtt cctcctcatc catctatttc ccaccctcct tactctgaca 240

tgatttgcac ggcgattgca gcgttaaacg aaccaagatg ggtcaagcaa gcaagctatt 300

tcgaggtaca tagagagaat ttacactggg attcctactg ctcatgggag ctttgttgac 360

acaccatctc aagactttga agaccagtgg gattcttgtc atggttaaga aatcttacaa 420

gcttgcttct actcctcctc ctccctcctc cta 453

<210> 3318
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B6

<400> 3318

gcagagagtg atggaaacag ctgtatttat tatgagacga aacaagaacc tctgggtttc 60

tacttaaact cttctctctt tcctctctca ctttaaaaat ccacacttta nagcacacaa 120

tacaaaaaat aagggtttct ttatcttttc gtttcttcca aattttgtaa tggatttgat 180

gcaaatggat aagcgtttgg attcaacgga gcaagtggtt gaagaaatca tgagaattca 240

cagatctcta cccgcaagac caggaattga cgaagttgaa gctgccaagg gtttgattga 300

caacgttgag aaagaagatc aagcttgttt agaagccatt gctagacaga ggaaaagctc 360

tgaagttcct ggtgagcttt tcatggtgtt gcaagaaatg aagaagggtt aaggttcagt 420

ttcgtagcaa agaacaagat aagagaaag 449

<210> 3319
<211> 495

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-B7

<400> 3319

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ttcttcttct tttggttctg tctgaatcca attttcttat attttatttc ctccaccacc 120

gtgagatatg atcgccgccg gagctaaatc gctattaggg ctttcgatgg cttctccaaa 180

agggattttc gatagcaatt caatgagtaa ttcaagatct gttgttgttg ttcgtgcttg 240

tgtttctatg gatggatctc aaactctgag tcataacaaa aatggatcta ttcctgaggt 300

taaatccatt aacggtcaca cgggacaaaa gcaaggacct ttgtctacgg tcggaaactc 360

gacaaatata aagtggcatg aatgttctgt tgagaaagtt gatagacaga gattgcttga 420

tcagaaagga tgtgtgattt gggtcaccgg tcttaagtgg ttcaaggaag agtactttgg 480

cttgtgcctt tgaat 495

<210> 3320
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-B8

<400> 3320

aaggtttttg atcttgacaa agttcaggag gaaggtacta gttcctcggc tcctgaatgc 60

attggtattc ttagaatttt caccaatcag tttcctgaag ctaagattac ttcttttcta 120

agtcttggag gaagttccac caatattgct tatagccatt ggcttagata atggctgcat 180

ttattgtgtc aaaggagaca ttgcacgaga gcgtatcact cggtttaagc ttcaagtgga 240

tggacggtcc gctattacag gcttggggtt caggatggat ggccaagcgc ttctgttgtt 300

tgcagtcact ccagagtcag tcaacttgtt tagtatgcag gcgcagccac cgaaattgca 360

gactttggat catattgggg gcagtgtgaa tactgttaca atgagtgacc gctcggaatt 420

aatagttggt ccacctgaa 439

<210> 3321

<211> 348
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-B9

<400> 3321

gcccacgcgt ccgtgacatc ctcgccgttg aagtctggca ggaggattgc aaagagtgga 60

gacgtatgag aagagtgttt ggagcggttc atgatttgca gaatccacct agaggcactc 120

tcacattgag gttcttagtc tacggaagcg caggaatcaa ttggatccaa tcgccaaacg 180

ctattcccgc tgattggact gccggagcca cctacgactc caacattcta cttacttaat 240

tgattcactt ttcatcagtg tgtttttatc atatagtatt tattatggtt tctgtatgca 300

atggctaata tatttaaata atgccctcaa aaaaaaaaaa aaagggcg 348

<210> 3322
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-C12

<400> 3322

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ctgagaagaa gaaaaggaag ctgagtctca ttttagattc agctcacgag gaagtgacga 120

cgatgtctca ttctagaaga ctttcgttgg aacctgctat agattcaatc actggtcgat 180

ttcgtgattt acagagaaat gatgatgacg tcaacaaacc tgattttcga gaactcgatc 240

taggttctcc tgtttctacc ttaatgccac gtggctctgc ttcttcttcc gctgctgcga 300

ctcctactag cagctctggc tcttctggct ctgcttctgg taaaccgtcg gtgagttctc 360

agatggctaa acggttagat gatgcttaca agagtcattc cggtgaagct ttctaacccc 420

gga 423

<210> 3323
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-002-Q1-E1-C7

<400> 3323

gaatngttgc gcggcctacc ggtcaggaat tcccgggtcg acccacgcgt ccgccangtt 60

cagagattaa acaatttgaa aaatcggaga ctctgggatt gtatggttcg ttgttactga 120

tagattactt aagctatggt ttggtttaga atcggttctt ctgtggcaaa gcttgccata 180

agaaggacac tgtctcagtc tcgttgtggt tcatatgcca ctagaacaag ggttttgcct 240

tgtcaaacca gatgttttca ctctacaata ctcaaatcaa aggcagagtc tgctgcacct 300

gttccacgtc ctgtcccact ttctaagcta actgatagct tcttagatgg aacaagcagt 360

gtgtatctag aggagttaca aagagcttgg gaggctgatc ccaacagtgt tgatgagtcn 420

tgggataact tttttaagaa ttttgtgggt caaggcttct acatcgcctg gtatctcggg 480

gcaaaccatt caagaaa 497

<210> 3324
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-C9

<400> 3324

gcccacgcgt ccgatgaata acagagcttt agattatcct cgggagaagg atggagcgcg 60

cgttcagatg agattatcat acagcccgac tgctcaattt tttctttttc ttgtacaatg 120

gactgattgt aagcttgctg gtttcctcgg tttactcaga gttcttattt atatgactta 180

tgcagatggg aaaacaacca tgtcggttta cgaaagaaaa gccagtatta gagagttcca 240

aggtatgctt atatatatgg cgatgatatt atttctggta aacaagattg atatcgttta 300

attcttatga gctttttaat attttcgtta tgttttagct gtgatattac catctttgtc 360

acaactacaa aggggtgtta cagacataga tgacagcaaa caaaaagagg tatgcaagat 420

gcgat 425

<210> 3325
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-002-Q1-E1-A2

<400> 3325

gagaagatgg gcatggcaat gaagtcagtt tctaacttcg caatcttttt aatcctcttt 60

ttggtcacct ctgaaatatc tgagatagaa gcgaaagata aggaatgtct aaaaggatac 120

attgatgcgc ctttaagcta ttgtatggct aggatttatc cgtcgttgtg ttatcgaaat 180

tgtcgttttt acaagggcgc gaaaggtgga aaatgcgacg gtcttaagtg cttctgcgac 240

ttctgcagcg acaagccttt ttagtcagtt tctgatgaga aatgtttgaa tcttggcatg 300

tataatggtt tgtgnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn acgctagact ttgattgtgt tatcactaaa ataaaatgaa gataagtggg 420

acttcggttg tggatnactc cacgagtg 448

<210> 3326
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-E6

<400> 3326

gattcgctgt ttgaccaaaa aataaaaaat tattgtttcg ctgagaaatg tatagataat 60

tatattatac gttagattgg taactaccaa aaatattact atatgttaga ttggtcacaa 120

aataagaaaa gaaaggtagt gtatatcaat ttattaatga cgtatttaat aaagttggtc 180

tcaagcgaaa tgaattgttc tttactgcta caaggcatat aatcctgtaa agaaaatctg 240

ggtggtcgaa ttgttctttt ccctttttct aatttcaaca tcaaaagttg ttccaccaga 300

agaatttgtt ctctgcagca gtaaagatcg atccgttctt gcttacaagc agaaaaatca 360

tatcgacaga gagagatgag acagaactca gcaactgggt ggtctttcat ggcggcgttt 420

actgttcctt cgct 434

<210> 3327
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-E7

<400> 3327

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tgcgtgtgtg tgaagaaagg atggaccttc tgcgtgcagc cctggttggt gcccctggaa 120

cgccatatca cgatgggctt ttctttttcg acataatgct tccacctcaa tatcctcatg 180

agccaccaat ggtacattat cattcaggtg ggatgcgact gaatccgaac ctgtatgagt 240

caggaagagt ttgcttgagt ctgctgaata catggagtgg ctctggcact gaagtatgga 300

acgcagggag ctcctccatc cttcaacttc ttctttcgtt tcaggctctg gttctgaatg 360

agaagcctta cttcaatgaa gctggctatg ataagcagtt gggccgaacc gagggaaaag 420

aaaaactcag tgagt 435

<210> 3328
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-E8

<400> 3328

gctgaactcc aaacatcgcc atgtccgaga ttctctcttc gttgaggtca ctaatggcct 60

ctcactctcc tcctcttgat gctttggttg ttccttccga agactatcac cagagcgagt 120

atgtttctgc acgagacaaa cgccgtgagt tcgtgtctgg attcagtgga agtgcaggtt 180

tggcacttat cacgaagaag gaagcaagac tttggacaga tggtcgatac ttcttgcaag 240

cattgcaaca gcttagcgat gagtggacac taatgcggat gggagaagat cctcttgttg 300

aagtttggat gtctgataat ctacctgaag aggcaaatat aggtgttgat tcatggtgtg 360

tctcggtaga cactgcgaat agatggggga aatcgtttgc caagaagaat caagaaacta 420

atcaccacaa c 431

<210> 3329
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-F2

<400> 3329

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attcagttcc tccatgacaa gacgattctc gtcaccggtg ttcccggttt cctcgccaaa 120

gtgtttgtgg agaaaatatt gaggattcaa ccaaaggtaa agaagctttt ccttcttttg 180

agagcagcag acaatgaatc agccatgcaa cggtttcaca gtgaggtttt ggagaaagat 240

ctttttagag tgttgaaaaa cgctttaggt gatgagaatc tgaaagcttt cataacagaa 300

aaagtcgtac ctattcccgg tgatatatcc gttgataatt tgggagtgaa gggttctgat 360

ctcttacaac atatgtggaa tgagattgat atcattgtca atgtagccgc cacaacgaac 420

tttgat 426

<210> 3330
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-F6

<400> 3330

aatccaacat gggcttctgt tccttatggg atcttcctat gcatcgattg ttctgctgtt 60

catcgaagtc taggtgttca tatcagcttc gtcaggtcaa cgaacttaga ctcgtggagt 120

cctgagcagc taagaacaat gatgtttgga gggaacaatc gagctcaggt gtttttaag 180

caacatggat ggaatgatgg tggtaagatt gaggctaagt atacttcaag agctgctgat 240

atgtatagac agactcttgc taaagaagtt gctaaagcca tggctgaaga aactgtttta 300

ccgtcgttat cctctgttgc tacttctcag ccagtggaat catctgaaaa tgggtttact 360

tctgaatctc cgaaagagag ttctttgaag caagaagcaa ctgttgtctc ttcaccaaaa 420

gctt 424

<210> 3331
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-F7

<400> 3331

gaaaaaacct ctcttctctc tcctcactgt aacaaatttt tagatctaga tctgcttttc 60

tcggtgcctt tgatcttcat ctctttggct ttgctttgaa atttcagggg tgaacaagat 120

gccttctccg ttggcagtgg tgtggttttt ctctccttcg atgtagttgt ggatccgatg 180

tgttggaagt agagagttgc tacgattccc ttcggttgtg gacgccggtt ggtgtagcga 240

tttcttctcg tggctcagcc gtcgtgtcgg cctctgcaac tacngcgnga agtcgatcga 300

agagaaggtg ggtaagtgcc aattcgccat gggaggttaa cggtggatnt tcctaaattt 360

gttggctgtc gcggattcag tgtgtttggg tgtttcgctt gagccttggg ccctcaaaca 420

acancgtgac ttgct 435

<210> 3332
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-G3

<400> 3332

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aaaagaagaa gatgagatgg taaagaatgc tgtattagaa tacattgata accatgcttt 120

aggagatgag gggataaaga tggttatgga atgcaaggca tacccacaac ttaaaggctg 180

ttggaaagaa attacatctg ctttaccttg gaggacttat aatagtgtgt atcatcgtgc 240

acatactata tttgaagcag gatctcaggg gatatggacg aaagaggata ttgaactcgt 300

tatggagttt caaaagacac acgggaatga ttggaaaaca cttgcagatg caatgggtaa 360

gcacaggaag catgtgaaag acgcttggag gagangaaga ttggcangta agaagaaagg 420

acattggatg agggaag 437

<210> 3333
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-G5

<400> 3333

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acaccaaatc cttcattttc atctcttaca caaccacact aagttaccaa aaaacagaat 120

ctgttctttt tttgccttct tgcagatttc ttcagagtca aagacacata aagatttata 180

attgagttgt gagttttgga ggccatggac gtaggagaga gcaatgagag ggtaaaagac 240

gattctgccc ttcaagcttc accgaggagt cctctgagtt ctatagatct tgcaattgat 300

ggagctatga atgcttctat tgagcagttg tatcataacg tttgtgaaat ggagagttct 360

gatgatcagt ctccgtccag ggcgagtttt atttcgtatg gagctgaatc caaggattga 420

tttggagttg angc 434

<210> 3334
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-G6

<400> 3334

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gcaggagttc actttagtgc ggtacccaga ccaggttgcc cttgaaaggc ttttccgagt 120

tgaagatatt anagttgggg ctacttctcg aaaggcgatt cccttactag ttgaacttct 180

taaaccaatt ccagaccgcc ccggtgctcc tctactttca cttaatcttc taactcagct 240

tgctggggac tgtccacaaa atatgattgt catggtagag tcaggtgctc ttgagggtct 300

ctcgaaatat ctttcccttg gacctcagga cgagcaagag gaagctgcaa caggtctttt 360

aggcatctta tttagcagtg ctgaaattcg aaggcatgag tcagcatttg gcgcggtcag 420

ccaa 424

<210> 3335
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-G7

<400> 3335

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ggatttcttg tactctttca aggcgcaaca ccttccaccg attgtgttga aatgtttatt 120

accaaaagct tatccgagcc acttaccgcc ttatttctta ataagtgttc agtggatgaa 180

tcctgataag atttcaagtc tctgctctaa gctggactcg ttatggagtg aacagccagg 240

gcaagaagtc ttgtaccagt ggacagattg gctacagaac tcgtcgattt ctcatcttgg 300

ttttgataat gagattgttc ttggtcctta tggtgttaca tgttccagag ataagcgtgc 360

tgtgtctgga aatcgttctc cggattcaga tattccttat attaggagtt atgacgatga 420

gaaacgtcat gat 433

<210> 3336
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-H7

<400> 3336

ctgttttatt tttttcttcc ggtggtacaa aaattcacaa tgaactgtat ttatcacaat 60

taatgaccga ttgctnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nggaagtaac 120

caaacaagcc tatatgctgc tgatcccatc taggggccaa gcctctcttc tttaaaaact 180

tttgacttcc attttcttga gaattcccct ttctgggttc ttgatttgga aagatgggta 240

acaagataat ctcaatgatg aagaaagata gcaaagatgg gaggaagang aggatctaaa 300

gagcaaagag aatgaatcgg tctcaagagg aaaattactt gctgatgaaa gagatgtttg 360

catcctccaa gctcctttcc aatggngaat tcaacaaagc tcaagctttc tcaaaaaatt 420

tngatgggtt caaaggtcaa aaacggggtc cggggtccaa caaagtanaa 470

<210> 3337
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-H8

<400> 3337

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atgttagtta atgtccattt tctgtggaca catgtggata tactgttatc ctctgtgata 180

ttagttatta ttacnaagac aacaatagtt acaaccgttg ttaanggatt tggatacaac 240

aataagacng ctcttctggt tggaatatct ctggctcaga taggggagtt tgcctttgta 300

ctacttaacc gtgcctccaa tcctcaactc atcgaangga aactccaacc tggctccccc 360

ttggaacaan ccgctctaaa gcctgggtta cgacaaccgc tgggttttca aaaatggata 420

ccaacaattt gtacatcc 438

<210> 3338
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-A10

<400> 3338

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cttcccagta ttgtactgat gttgcaaagg ctttgagtgc tcccatcttt catgttaatg 120

gggatgatgt tgaggctgtt gttcatgcct gcgagcttgc tgctgagtgg cgtcagactt 180

ttcattctga tgttgtcgtt gatttggttt gctaccgtag gttcgggcat aatgagatag 240

atgaaccatc tttcactcag ccaaaaatgt acaaggttat caaaaatcat ccttcaaccc 300

ttcagatcta ccacaaaaag ctcttggaat gcggtgaagt atcacaacag gatattgacc 360

ggatacagga aaaggttaac accatcctca atgaaagaat ttgtccctaa gtaaaggact 420

aacccccc 428

<210> 3339
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-002-Q1-E1-A12

<400> 3339

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taatgttatc gccgagtact tctttgacag gtttcacttg aagctccaca cagcagggct 120

catagcagca tgtttcggaa tggccaattt ctttgctcgt ccagcaggag gctacgcatc 180

tgactttgca gccaagtact tcgggatgag agggaggttg tggacgttgt ggatcataca 240

gacggctggt ggcctcttct gtgtgtggct cggccgcgcc aacacccttg taactgccgt 300

tgtggctatg gtgctcttct ctatgggggc acaagctgct tgcggagcca cctttgcaat 360

tgtgcccttt gtctcccggc gagctcctaa gcatcatcct cgggtttaac cggggctgga 420

gggaac 426

<210> 3340
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-001-Q1-E1-E5

<400> 3340

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gagatgtctc cggaagctta cgttctgttc tttaacagtt ttaacctcgt aaccttcgaa 120

gcctttgctt cagtctcact tatcatagcc acagttgctt tcttgctctc accaggtggg 180

ctcgcatggg cctggaccgg gtcatccaag agtcgggttt cgattccagg accatctggt 240

tctctttccg tcttctccgg ctccaatccc caccgtgttc tcgccgctct tgctaaacgc 300

ttcaaggcct ctccgttgat ggcgttctca gttgggtttt cgcgtttcgt tatctctagt 360

gaaccggaga cggctaaaga gattttgagc aagctctgct tttgctgacc ggncggttaa 420

ggatcagctt aag 433

<210> 3341
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-032-Q1-E1-C8

<400> 3341

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cgagacgttc tttgtcaccg attgacatat tcaaaaacga cgaagctagg taaaggaacg 120

gagagaagag tcgataatag aagcgtacag atgggaaatc agaagctcaa atggacggcg 180

gaggaagagg aggcgttact cgccggagtt aggaagcatg gccctggaaa gtggaagaat 240

attctccgcg atcctgaatt agctgagcag ctctctagtc gctctaacat cgacctcaag 300

gataaatggc gtaatttaag tgttgctcct ggtattcaag gctcnaagga nttaagatac 360

cggcaacaaa natcaaanct ggcggctttc aac 393

<210> 3342
<211> 360
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-050-Q1-E1-B11

<400> 3342

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taacataata tacaatcaca catatcattt ctatatanta tttaatgggg agacagccat 120

gctgtgacaa gctaggggtg aagaaagggc cgtggacggt ggaggaagat aagaagctta 180

gaancttcat acnaaccaat ggccattgtt gctggcgtgc tttgccgaag ctggccggtc 240

tccgtcgctg tggaaagagc tgccgcctcn ggtggactaa ctatctccgg cctgacttaa 300

aacgaggcct tctcncgcat gatgaacaac ancttgtcat agatcntcat gctaatctcg 360

<210> 3343
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-074-Q1-E1-E2

<400> 3343

acattcttgt tgttttaagc agaagctaag aaaaggcctt tggtctcctg aagaagatga 60

gaaacttctc aattacatca ctagacatgg tcatggctgt tggagttctg tccctaaact 120

cgcaggtttg caaagatgtg gaaagagttg tagacttagg tggataaatt atttgagacc 180

agatttaaag agaggagctt tctctcaaga cgaagaaagc ttgatcattg agctccatgc 240

tgcattaggc aacagatggt ctcaaatcgc aacgcggtta ccgggaagaa cagacaacga 300

gatcaaaaac ttttggaact catgtcttaa gaagaagctg agaagaaaag gcattgaccc 360

aacaacacat aaacccttaa taacaancga gcttcaatct cctaacgtca taaatnag 418

<210> 3344
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: 39-LIB22-072-Q1-E1-B4

<400> 3344

gcgggcgcgc aactgtagcg nncggtagcg tcanagantc gagggccgac ccacgcgtcc 60

aatctccttt gnaaanatgt gtttcatgga ggagaaacac caagtgagca acaacaacaa 120

caaccagttt gggatgacaa actccgttga tgctggatgt aatgggtatc agtatttcag 180

ctctgaccag ggtagtaatt ctttcgattg ttcggagttt ggttggagcg atcaagctcc 240

gataactccc gacatctctt ctgcggttat caacaacaac aactcagctc tgttctttga 300

ggaagccaat ccagctaaga agctcaagtc tatggatttc gagacacctt acnacancac 360

tgaatgggac gcttcactgg atttcctcaa cgaanatgct gtaacgactc angacaatgg 420

tgcaaaccta tggacctatg gagtattgat gaaantc 457

<210> 3345
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-D12

<400> 3345

acgcgtccgc ggacgcgtgg ggccgctgtt aacggagagt tatggatctg gtggatcttc 60

ttcgccgttg tcggagctga cgtttggtga tacggaggag gagattcagc cgccgtggaa 120

cgagaacgcg ttggagaagt atccgtcgta cgagatcgat tgggattcga ttcttcagtg 180

ttcgagtctt gtaaattaga tgttgccata ggggtatttt agggacttta gagctctctg 240

cgatggagtt tttggtcatt gcagagattt tattattatt aaggggggttt gttatgttaa 300

tatcaaataa gtttatctac tttgatgtta attagtgtta atctctgcgt cggtccaagc 360

tgtttttttt tggcatgctt cgaccgtgtg agattctang taatttttgt 410

<210> 3346
<211> 258
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-004-Q1-E1-G12

<400> 3346

tttagaaaga aaaaacagat taaatctgag agagaaaaat ataattttag ctgacatgga 60

tcgttatgta catattatta cataaccgga gatctgaact tttgttgtgt gcnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnncca aattttcaat caataatttg gtaatcttca gaattatctt gtccnnnnnn 240

nnnnnnnnnn nnnnnngg 258

<210> 3347
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-D6

<400> 3347

acgcgtccgg tcgaaagcaa aacagtctcc tttctctatc ttctgctcat atcaggccat 60

tgacacagtt gctttgggtt tccctcaaac ggcgccgatt gtctggattt tgaccactga 120

tggccttaga tcaatctttt gaagatgctg ctttacttgg agaactctat ggagaaggtg 180

cattttgttt caagagcaag aaacctgaac ccattacagt ctcggttcct tctgatgata 240

ctgatgattc gaattttgac tgcaatattt gcttagactc ggtgcaagaa cctgttgtga 300

ctctctgtgg tcacctcttt tgctggcctt gtattcacaa atggcttgat gtacaagagc 360

ttctcaacaa gtgatgaata ccagaagaca tagganagtg tcctgtttgt aaatctaaaa 420

gtttctcatt ccnactttgg ttcctttgt 449

<210> 3348

<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-F3

<400> 3348

gcttgccggt nccggtccaa aattcacggg tcgacccacg cgtcngnttg tcacctccgg 60

ccaaccttaa cccttaagcn aacggtgttc ctttgcggat tgcgatcgtt ccgtcgatcc 120

cttcaacgcc cgatctaaat ctccaatcgt gtcggagatt aaaagcagag gttttgtggt 180

gaatcatgtc tgatgtccct tcttgttcta ncggtaatga tacaaacaac aatgattcga 240

gtaacttcga atgtaacatc tgcttagact tggntcaaga tcctattgtc actctctgtg 300

gncacttgtt ctgttggcct tgtttataca aatggctcca tctccattct caatcnaagg 360

actgtcctgt ttgcaaaagc cgtgatcnaa gaagacagat tggttccttt gtacggtaga 420

ggtaaancgt ctgctgaccc tcggtcc 447

<210> 3349
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H2

<400> 3349

cttttaactt cccggtnccg gtcaaaaatt cacgggtcga cccacgcgtc cncccacgcg 60

tccggactcg gactcgtcgt gttcgttact gagtcgttca ctcgggtcta atctgggaaa 120

cgacgtcgtt gcgtctctca agaatctgca acttaataaa gtnnagtcct ccccttnctc 180

gtcatacaac aatcnaatcc gnagnnancg nttccggntn cggnnccccc cttgnttcgg 240

ttttgggtcc tggtttccnt accttaccaa ctacaccgac ccgacctggt tttatgaaca 300

tttggganaa tggcttggag gaagaaccgg cgatggaacg ggtcgagtcg ggtcgtgaac 360

tgcgagcgca gctgttcgan aagctgagca aagagaattg catgggtcgg attgaaccgg 420

atccggatna gggagcgggt gatactcctg atgtcnggtg ggtctctgaa cttggttatg 480

t 481

<210> 3350
<211> 824
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: 31-LIB22-084-Q1-E2-H3

<400> 3350

actggtttgc ctagccgttg cctggccaac cggtccggaa tcccgggtcg acccacgcgt 60

ccgctcaaaa ccaaaatcac taaagaggag aagattgcta aagtttgata aaacattcca 120

aaatcaatgg ctgataggat caaaggtcca tggagtcctg aagaagacga gcagcttcgt 180

angcttgttg ttaaatacgg tccaagaaac tggacagtga ttagcanatc tattcccggt 240

atatcnggga aatcgtgtcg tttacggtgg tgcaaccanc tttcgccgca agttgagcat 300

cggccgtttt cggctgagga agacnaanac gatngcacgt gctcacgctc agttcggtaa 360

taaatgggcg acgattgctc gtcttctcaa cggtcgtacg gacaacgccg tnaagaatca 420

ctgggaactc gacgctcaag aggaaatgcn gcggttacga ccatcggggt tacgatggtt 480

cggaggatna tcggccggtt aanaaatcgg tgagtgcggg atntccaacc tggttgttac 540

tggggcttta catgaanccc aaggaaagcc caactgggat ntgaatgtca gttattcaag 600

tactaatccc gatattacct tcccgttgaa gcttttcaag cctgttgcct aaaacctggg 660

tgctgttgtn ccnaccggct tcctatcnaa acgttcgtcc ttccttccga atgattcaac 720

cgacttcgtt aaancttgtc ancttccttg gtgccgacnt taagcnaang gatcaaaccg 780

ttncccacga antcaacnaa ttttcacaan accaatttca agcc 824

<210> 3351
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: 57-LIB22-072-Q1-E1-G11

<400> 3351

cccgccggta ccggtccaan aattcccggg ncgacccacg cgtccgcgga cgcgtgggct 60

caaaaccaaa atcactaaag aggagaagat tgctaaagtt tgataaaaca ttccaaaatc 120

aatggctgat aggatcaaag gtccatggag tcctgaagaa gacgagcagc ttcgtaggct 180

tgttgttaaa tacggtccaa gaaactggac agtgattagc aaatctattc ccggtagatc 240

ggggaaatcg tgtcgtttac ggtggtgcaa ccagctttcg ccgcaagttg agcatcggcc 300

gttttcggct gaggaagacg agacgatcgc acgtgctcac gctcagttcg gtaataaatg 360

ggcgacgatt gctcgtcttc tcaacggtcg tacggacaac gccgtgaaga atcactggna 420

ctcgacgctc aagaggaaat gcggcggtta cgaccatcgg ggttac 466

<210> 3352
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-027-Q1-E1-E1

<400> 3352

aattctccag cccgtaccgg tcnaaaattc ccgggcccac cacgcgtcna aacgggccac 60

gttgttgnga gatgattagg gattatgggc aggcagcaag tgatatggag agatatgtta 120

atattctaac caagcaaatg gaagagaaga cctctggaac ccttgacaga tctactagta 180

tgtccaatga cataagacaa gctcgtatac gactttctga actggaagag aaatcaagga 240

aagaaaattc attggatatg tacctcgtct tgggtgttgt accatcatgc tcggcttcag 300

atatcagaaa ggcatatagg aaggccgcac tcaaacatca tcccgacaag gctggtcagt 360

ctttgacaag aaacgaagac taaagatgag angttatgga aggagatagg ggaaagaatg 420

cgcaaagata ccgataaatt atttaaaatg attggggaan cgtatgctgt gctttcagac 480

cctg 484

<210> 3353
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-A5

<400> 3353

tgcccgggnc gacccacgca tccnacagag gnaactcagg acgantgtga ttttttcttc 60

ttgagtgaat tgttgtaaaa aantgntgat cggagaatct catcgtggtt ttaatccaac 120

ggttcatatt cctccatggc cactttctga agatctaacg gtgtctgata tttacggaag 180

tcnagacgga ggaagtagta tgatggaagc tttggctgag ttacaacgtt atcttccgtc 240

aaacgaaccg gatccggatt cagatccgga tctctcgggt ccggattcac caatcgatgc 300

ttatacatgc gatcattttc ggatgtatga gtttaaagtg agacgttgtg ctcgtggccg 360

gagccatgat tggacggagt gtccttacgc tcatcccgna taaaaagctc gccgtcgtga 420

ttcgangaag tttcattact ccggtaang 449

<210> 3354
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-C3

<400> 3354

catnggacgg cccggtcagn gataaacggg tcnanccacg cgtccganca cncgtccgcg 60

gttctaagaa gatgggtctt gaagaaagaa caccttaat ggttgcagct atgtatggaa 120

gcataaaggt tttgactttc atcgtttcca ctggaaaatc tgatgtgaac agagcttgtg 180

gtgaagagag agttactccg cttcactgtg ctgttgctgg ctgttctgtg aatatgattg 240

aagtcatcaa tgtcttgctt gatgcttctg ctttggttaa ctctgttgat gctaatggga 300

atcaaccttt ggatgtgttt gttcgagttt cgaggtttgt ggctagtccg aggaggaaag 360

cggttgagtt gttgctgaga ggaggangtg ttggaggatt gatcgatgaa gcggttgaag 420

aagagatnaa gattgtctct aaatatccaa ctgatgcctc cttaacggga taaaaa 476

<210> 3355
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-016-Q1-E1-B9

<400> 3355

ttacttgccc gcccgtacaa tcaagaattc ncgggtcgac ccacgcntcc gtctcgttcg 60

agcttccatt tttcctcatc gcaatcttca tcttcaatct ccagctatct caantcgatc 120

cttctcgaat caccatcatg agtgaccatg gcgagangac ttgtccactt tgngctgaag 180

agatggatct gactgatcaa caattgaagc cttgcaaatg tggttatcan atttgtgttt 240

ggtgcnggca tcacatannng gacatggnac aganagatca antagaaggg cgttgtccag 300

cttgtcgcac tcnatatgac atngaaanga ttgtagggat gactgttaat tgtgacagtc 360

tggcttctga aggcaatatg gancgcaaga agattcanaa gtcaaaatca aaatcttctg 420

aacggagaaa ncaacaactc accantgtgc gagtgattca agaggaatcc tg 472

<210> 3356
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-G1

<400> 3356

acgacggatc ttacttccat tatcatacag cttatttcaa ctgcagagtc agaacaataa 60

caactgtggt gctcgagagt tcgatttgcc taagccggtt cttgttgatg agagggaagg 120

tcatgttgtg gaggaacatg agatgaaaga tgaagatgat gtggaagaag gagagaacct 180

tcctcccggt tcgtatgaga tattgcagct tgagaaagaa gagattctcg caccgcatac 240

tcacttctgc acgatatgtg gcaagggttt caagagagac gcgaatttga ggatgcatat 300

gagaaggcat gganatgagt acaaaacagc agctgctctg ggcgaaaccg aacaaaggaa 360

tccgtaaccg ggtctgaacc gatgctgatn aagaagtacc cgtgccaatc ccttggttca 420

aacttacaag gacaa 435

<210> 3357
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-025-Q1-E1-A5

<400> 3357

aaattcgcgg gncgacccac gcgtccaaaa aaacattcca actttcttct caatttcatt 60

ccaggatagt attatgtgca gtggaccaaa gagcaatctc tgctcttcaa gaaccttaac 120

agaaatcgaa tcaaggcaaa aggaagaaga aacaatgctt ctcctcgaat tcgctgcttg 180

tgatgatctt gactcgttca agagagaggt tgaagagaaa gggcttgatt tggatgagtc 240

agggttatgg tattgcagac gtgtcggttc taagaagatg ggtcttgaag aaagaacacc 300

tttaatggtt gcagctatgt atggaagcat aaaggttttg actttcatcg tttccactgg 360

aaaatctgat gtgaacagag cttgtggtga agagagagtt actccgcttc actgtgctgt 420

tgctggctgt tcngtgaata tgaatgaagt cctcaat 457

<210> 3358
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-026-Q1-E1-A12

<400> 3358

ggtaccanac atgagaattc ccgggccgac ccacgcatcc aagtttttg gtagtggtgg 60

tcgagaaaag agagagtttg tctctgtgac tcagagtgaa atcaatagag cgggaaaaga 120

ttgttgcttt tttttgccat gggagttgat gagctgtctc acctcaaatt ctctcttctg 180

ctagaatcat cagcctgcaa tgatttgtcc ggttttaagt ctctagttga agaagaaggt 240

cttgagagca ttgatggctc tggtttgtgg tatgggagga gattaggatc aaagaagatg 300

ggttttgagg agaggacgcc tcttatgatt gctgccttgt ttggaagcaa agaggttgtt 360

gattacatca ttagtactgg tcttgttgac gtgaaccgc[illegible] tggtgcc 420

acggctcttc actgtgcggt ctctg 445

<210> 3359
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-029-Q1-E1-G9

<400> 3359

gaactggtct tcctggctcc acggtccgga nancccgggt cggcccacgc cgtccggcna 60

aagacnagat aagacagagg gtcgttgtcc tgcatgtcnt acccgttatg ataaggaaaa 120

gattgtangg atgacagtca gctgtgaaag gttggttgct gaattttaca ttgaccggaa 180

aaagtcacag aaggcgaagc ctaaacctgc ggagggaagg aaagatctaa ctggtgtgag 240

agttattcag ågaaacttgg tttacgttat gancttgcct tttgacctgc cagatgaaga 300

tatgtttcag cgaagagaat actttggtca atatgggaaa gtcgtcaaag taccaatgtc 360

tcggactgca gctggggctg tccaacaatt tccaaaacaa tacttgcagt gtntataatt 420

acttacccaa anaagangga ancgantcca agttacccga ttaattacat ggattaatat 480

ttggatggta agaaaatttg na 502

<210> 3360
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-038-Q1-E1-G5

<400> 3360

ctaattcgtc tccttctatt gctcaccgga gccctaggat tggtttgccc acgaatctaa 60

atcctaaaat tttaatcagc cgcagatgtc tgagctccgg gagttacgtc tcagaaatgc 120

agaaatcagc tttccagggc aacattttgc gactgatccg taatgagatt gagtacgaac 180

tcgatcactc gcctcctctt cagcctccta acagttttgg tccattcact gtggatgaac 240

ggcctggaga gcagtggatt agcttgaaaa ggaattttgg ggataaagaa gacatcaaaa 300

ttgaagcaac tatgtttgat agatcagttc ccacgtcaaa atctaccaaa actgaacctg 360

aatatattct tcacatcact ttcattgtca acatctccaa gggtggt 407

<210> 3361
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-041-Q1-E1-H4

<400> 3361

acgcgtccgn aaatgataaa cgtnaagcca atggagcaaa tgatttctag caccaacaac 60

aacacaccgc aacaacaacc aacattcatc gccaccaaca caaggccaaa cgccaccgca 120

tccaatggtg gctccggagg aaataccaac aacacggcta cgatggaaac tagaaaggcg 180

aggccacaag agaaagtaaa ttgtccaaga tgcaactcaa caaacacaaa gttctgttat 240

tacaacaact acagtctcac gcaaccaaga tacttctgca aaggttgtcg aaggtattgg 300

accgaaggtg gctctcttcg taacgtccca gtcggaggta gctcaagaaa gaacaagaga 360

ttctctacac ctttagcttc accttctaat cccaaacttc cagatntaaa cccaccggat 420

tcntttctca angccaaaat ccc 443

<210> 3362
<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-009-Q1-E1-A12

<400> 3362

cgacncgtcc gnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnggcatc ggttacatat gggattttcc tctgcatcga ttgttcagct 240

actcaccgga atcttggtgt tcatatcaag cttcgtcaga tcaacgaatt tagactcttg 300

ggagcccgga gcagctcaag ggacaatgat gtttnggtgg gtaacaaacg tgcccaaagg 360

tttccttcaa agcaacaatg gatgggactg aatggtggca aaantgaaac naaatntaat 420

tcaanaactg ccgaattgta accgna 446

<210> 3363
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-011-Q1-K1-E4

<400> 3363

ccaaagacct ccaaagtgtc aatctttact tctctctttt tctccaagtt atcttctttt 60

cgaggaagag atatgtgcgg tgcaaagagc aacctttgct catctaaaac cctatcagaa 120

gtcgaattca tgaggcagaa atcagaagac ggagcttccg ccacgtgtct cctcgaattc 180

gccgtctgtg atgatctttc atcgtttaag agagagatcg aagagaatcc atcggcggag 240

attgatgagt cagggttttg gtattgcaga cgggtcgggt ctaagaagat gggttttgaa 300

gaaagaacac cacttatgga tgctgctatg tatggaagca tggaagtgtt gaattacata 360

attgccacag gaagatccga tgtgaacaga gtttgcagtg acgagaaagt cactgctctt 420

cactgtgcag tttctggctg gactgtttct atcgatgaga tcatcaagat cttgcttg 478

<210> 3364
<211> 371
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-085-Q1-E2-B1

<400> 3364

atcttcaccc caaaaacctc caaagtttca atctttactt ctctcttttt ctccaagtta 60

tcttcttttc taggaagaga tatgtgcggt gcaaagagca acctttgctc atctaaaacc 120

ctaacagaag tcgaattcat gaggcagaaa tcagaagacg gagcttccgc cacgtgtctc 180

ctcgaattcg ccgcctgtga tgatctttca tcgtttaaga gagagatcga agagaatcca 240

tcggtggaga ttgatgagtc agggttttgg tattgcagac gggtcgggtc taagaagatg 300

ggttttgaag aaagaacacc acttatggtt gctgctatgt atggaagcat ggaagtgttg 360

aattacataa a 371

<210> 3365
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-058-Q1-E1-B11

<400> 3365

cccacgcgtc cgcttcttct ccccaaaaac ctccaaagtt tcaatcttta cttctctctt 60

tttctccaag ttatcttctt ttctaggaag agatatgtgc ggtgcaaaga gcaacctttg 120

ctcatctaaa accctaacag aagtcgaatt catgaggcag aaatcagaag acggagcttc 180

cgccacgtgt ctcctcgaat tcgccgcctg tgatgatctt tcatcgttta agagagagat 240

cgaagagaat ccatcggtgg agattgatga gtcagggttt tggtattgca gacgggtcgg 300

gtctaagaag atgggttttg aagaaagaac accacttatg gttgctgcta tgtatggaag 360

catggaagtg ttgaattaca taattgccac aggaagattc gatgtgaac 409

<210> 3366
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-001-Q1-E1-B5

<400> 3366

acttcttctc cccaaaaacc tccaaagttt caatctttac ttctctcttt ttctccaagt 60

tatcttcttt tctaggaaga gatatgtgcg gtgcaaagag caacctttgc tcatctaaaa 120

ccctaacaga agtcgaattc atgaggcaga aatcagaaga cggagcttcc gccacgtgtc 180

tcctcgaatt cgccgcctgt gatgatcttt catcgtttaa gagagagatc gaagagaatc 240

catcggtgga gattgatgag tcagggtttt ggtattgcag acgggtcggg tctaagaaga 300

tgggttttga agaaagaaca ccacttatgg ttgctgctat gtatggaagc atggaagtgt 360

tgaattacat aattgccaca ggaagatccg atgtgaacag 400

<210> 3367
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-014-Q1-E1-D6

<400> 3367

atcattctct ctgatctcaa gaaataatct caaatctctt acactcatag tcttcaagca 60

acttctcaga ttcagctctt atggatcatt tgttacaaca ccaggatgtt tttgggaatt 120

ataacaaagc aagagaagca atgggactat catattcatc aaacccaaca ccgttagata 180

acgaccagaa gaaaccttct cctgcaacgg ctgtgacaag gccacagcct ccggagctag 240

ctctcaggtg tccacgttgc gactcaacan acacaaagtt ttgttactac aacaactaca 300

gtctcactca gcctcgctac ttctgcaaat catgccggag atattggact aaaggtggaa 360

ctctaaggaa catccccgtg ggtggaggct gccggaaaaa caaacgatcc acatcttcgg 420

ctgcaagaag cctcagaacc a 441

<210> 3368
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-C6

<400> 3368

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catcatcatg atcaatacca acatcagatg atgactagta ctaacaataa ttcctataac 180

accatcgtca caacacaacc accatcaaca acaacaacaa tggattcaac aacagcaata 240

actatgataa tggatgacga taagaagttg atgacgacaa tgagcactag gccgcatgaa 300

ccaagagact gtccaagatg caactcaagc aacaccaagt tttgttatta caagaactac 360

agcttagcac agcctatgta catgtgtaag tcctgtcgga gatattggac t 411

<210> 3369
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-058-Q1-E1-C10

<400> 3369

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aaaagggtct gattcgtttg ttttttcact gaagaatttg gaaggaagtg attccgttgt 120

gaaacataaa agaagtatgg gtactcacat tgatatcaac aacttaggcg gcgatacttc 180

tagagggaat gagtcaaagc cattggcgag gcagtcttcg ttatattcct taacgtttga 240

tgagcttcag agcacattag gtgagccggg gaaagatttt gggtctatga atatggatga 300

gttactcaag aacatatgga ctgctgagga tactcaagcc tttatgacta ctacatcttc 360

ggttgcagcc ccgggaccta gtggttttgt tccgggagga aatggttt 408

<210> 3370
<211> 413

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3370

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agccaaaaca cttggccaca atgaatccat ggccgatgat atcttacaga tcttctccaa 120

cttcgacggc agattttctc gcgagaagct cgccgaaggt caagctggag aagatggatc 180

cggagtcgcc acactcgagc gagctctaaa ttcaatagac ggtcagatct ctcgctttgt 240

tgctgcggac caaccaattt gggctgatcc tgcagattca gctgctttcc tcgacacaat 300

cgatgagctc gttgcaatca ttagagagtg gagtcncatg gcttcagaga aacctatcgg 360

catctgtcta acacgcgccg acgatatgat gcagcaagct atgttccgca tcg 413

<210> 3371
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-082-Q1-E2-A1

<400> 3371

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aatttgatcg tcctgaattc atcgtcctat ttaaggtttc gatcacaatc tgaagaggat 180

gtcatggacg tttctgctaa aaagtcacaa aaagctgggc gcgaaaagtt gaggagggaa 240

aaactgaatg agcattttgt tgaactggga aatgtactcg atccagagag acccaagaat 300

gacaaagcca cgattctgac tgatactgtt cagttgttga aagagctcac atctgaagtc 360

aacagactga aatctgagta caacgcattg acagatgagt cccgcgagtt gacaca 416

<210> 3372
<211> 171
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-036-Q1-E1-C10

<400> 3372

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aacggagccg atccgacaga gttcggacct tattaacaag gttcgaagtc atttcaattt 120

cgaccgcgga gctggagagt tatcgggtct taagtggaag cttgacccgg a 171

<210> 3373
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-019-Q1-E1-D8

<400> 3373

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attcgggtca aacacaattc gaaaacaaaa gaaagaggtc gatggttttg aacgaagata 120

aagttctatc attcggagat aaaaccgccg gagaatcaga tcactccgat ctagaagctt 180

ccgtcgtgaa agaagtagca gtagagaaac gtccaaagaa acgaggaaga aagccagcaa 240

acggtagaga agagccacta aaccacgtcg aagcagagag acaaagacgc gagaaactaa 300

accaaagatt ctacgcgtta cgagcggttt gtacaaacgt ttcaaaaatg gataaagctt 360

cgttactcgg tgacgcaatc gcttacatca acgagcttaa atcanagtag tcaaaacaga 420

<210> 3374
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-038-Q1-E1-F9

<400> 3374

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ctcttaacgt gatcataacg tgattcgaaa attggatata gataggtttc ttgttggatc 120

ttgatccctc tggaaaagga ggggagaata gcagttcatg atgggatttt gtatctgccc 180

gttggagtca cctgcgagat tactatggag tacaagcttc ttccgccata agatcatgat 240

cttctaatcc ttcctacttc ttcccatctt tttaatcatc ttctcgctat ctctgcttcc 300

tctttctctc tgtttcctct ttctcagaac tcagaagtag ttgttgtttt atttctgttg 360

atcaaaaatg gaatccaatt cgtttttctt cgatccatct gcttcacacg 410

<210> 3375
<211> 390
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-060-Q1-E1-C4

<400> 3375

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agtctcctcg ttttgttcat gttgttgttc aagtgaagaa gctcaattat gtttacaaca 120

ttgttgtaat ttcaaaactt cataagaatt tctctgataa taaagaaaaa gctggagtag 180

aactatttta aagtgtcatc atgaagagac taagcagctc agattcaatg tgtggtctaa 240

tctccacttc tacagatgaa cagagtccaa gagggtacgg aagtaattac caatctatgc 300

ttgaaggtta cgatgaagat gctacactaa tcgaggaata ttccgggaac caccaacaca 360

tgggtctatc ggagaagaag agaagattaa 390

<210> 3376
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-076-Q1-E1-D3

<400> 3376

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tattaattct caagatctta aagattatat taatacgaag agaaaattca aatgggtctt 120

gatgattcat gcaacacagg tcttgttctt ggtttaggcc tctcaccaac gcctaataat 180

tacaatcatg ccatcaagaa atcttcctcc actgtggacc atcgtttcat caggctcgat 240

ccgtcgttga ctctaagcct atccggtgag agctacaaga tcaagactgg tgccggcgcc 300

ggcgaacaaa tttgccggca gacctcgtcc cacagcggca tctcatcttt ctcgagcgga 360

agggtaaaga gagaaagaga aatctccggg ggggatggga aaaaagaggc gggagagaag 420

acggat 426

<210> 3377
<211> 395
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-067-Q1-E1-H9

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gatcggagaa actcgcagga cttatcccac tgttgaaata cctccatggc cggtacttga 120

agagcttaca acgtcggagt ttttttttct ccggtgatga atagtccaga ttgtagcatg 180

cttgaagctt tggcggggtt gcagcgttat ttgccgtcta acgaaccgga tccggagtca 240

tacccggatc tattgggtcc ggattcacca atcgatgctt actcatgcga ccatttccgt 300

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ccgtacgctc atcncggaga aaaagctcgc cggag 395

<210> 3378
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-062-Q1-E1-G5

<400> 3378

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ttatattaat acgaagagaa aattcaaatg ggtcttgatg attcatgcaa cacaggtctt 120

gttcttggtt taggcctctc accaacgcct aataattaca atcatgccat caagaaatct 180

tcctccactg tggaccatcg tttcatcagg ctcgatccgt cgttgactct aagcctatcc 240

ggtgagagct acaagatcaa gactggtgcc ggcgccggcg accaaatttg ccggcagacc 300

tcgtcccaca gcggcatctc atctttctcg agcggaaggg taaagagaga aagagaaatc 360

tccggcggcg atggagaaga agaggcggag gagacgacgg agagagtggt gtgttcg 417

<210> 3379
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-025-Q1-E1-F10

<400> 3379

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gattatatta atacgaagag aaaattcaaa tgggtcttga tgattcatgc aacacaggtc 120

ttgttcttgg tttaggcctc tcaccaacgc ctaataatta caatcatgcc atcaagaaat 180

cttcctccac tgtggaccat cgtttcatca ggctcgatcc gtcgttgact ctaagcctat 240

ccggtgagag ctacaagatc aagactggtg ccggcgccgg cgaccaaatt tgccggcaga 300

cctcgtccca cagcggcatc tcatctttct cgagcggaaa ggtaaagaga gaaagagaaa 360

tctccggcgg cgatggagaa ga 382

<210> 3380
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3380

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aggacaccct gacaagcttt gcgaccagat ctctgatgca gtccttgatg cctgccttga 180

gcaagaccct gatagcaaag ttgcttgtga gacatgcacc aagaccaaca tggtcatggt 240

tttcggtgag atcaccacca aggctacgat tgactacgag aagattgtcc gtgacacttg 300

ccgttccatt ggattcatct ctgacgatgt tggtcttgat gctgacaaat gcaaagtcct 360

tgttaacatt gaacaacaga gcccagacat tgctcaaggt gttcacggtc actttcacaa 420

acgtcnagaa gacattggag ctgg 444

<210> 3381
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-E12

<400> 3381

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gacaagcttt gcgaccagat ctctgatgca gtccttgatg cctgccttga gcaagaccct 180

gatagcaaag ttgcttgtga gacatgcacc aagaccaaca tggtcatggt tttcggtgag 240

atcaccacca aggctacgat tgactacgag aagattgtcc gtgacacttg ccgttccatt 300

ggattcatct ctgacgatgt tggtcttgat gctgacaaat gcaaagtcct tgttaacatt 360

gaacaacaga gcccagacat tgctcaaggt gttcacggtc acttcaccaa acgtccagaa 420

g 421

<210> 3382
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-024-Q1-E1-C9

<400> 3382

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ctgtgaacga aggacaccct gacaagcttt gcgaccagat ctctgatgca gtccttgatg 180

cctgccttga gcaagaccct gatagcaaag ttgcttgtga gacatgcacc aagaccaaca 240

tggtcatggt tttcggtgag atcaccacca aggctacgat tgactacgag aagattgtcc 300

gtgacacttg ccgttccatt ggattcatct ctgacgatgt tggtcttgat gctgacaaat 360

gcaaagtcct tgttaacatt gancancaga gcccagacat tgctcaaggt gttcacggtc 420

acttcaccaa ac 432

<210> 3383
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-011-Q1-E1-F11

<400> 3383

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acccatcagg ccggtttgtg atcgggggac cacacggtga tgctggatta actggacgta 180

agatcatcat tgacacatac ggaggatggg gagctcatgg acgtggtgct ttctcatgca 240

cagacccaac cagagtctac agaagtggag cttacatcgt gatgcatgca acatagagtg 300

tcgtggctaa tagcatggct cgcagggctc gtgtccatgt ctcatacgcc attggagtac 360

ccgatccatt gtctgtcgtc gatgtcactt gcggaagatg gttgattcca gacgaggata 420

tcctgatgat cgtggaggag acattcgatt tcataccagc gactgatgac aatc 474

<210> 3384
<211> 663
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-011-Q1-K1-F11

<400> 3384

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acccatcagg ccggtttgtg atcgggggac cacacggtga tgctggttta actggacgta 180

agatcatcat tgacacatac ggaggatggg gagctcatgg aggtggtgct ttctcaggca 240

aagacccaac caaagtcgac agaagtggag cttacatcgt gaggcaagca gcaaagagtg 300

tggtggctaa tggcatggct cgcagggctc ttgtccaggt ctcatacgcc attggagtac 360

ccgagccatt gtctgtcttc gttgacactt acggaacagg gttgattcca gacaaggaga 420

tcctgaagat cgtgaaagag acattcgatt tcagaccagg aatgatgaca atcaacttgg 480

acttgaagag aggaggaaat ggaaggtttc agaaaacggc agcgtatgga catttcggaa 540

gagacgaccc tgacttcacc tgggaggtcg tgaagccact caagtgggac aaacctcaag 600

cttaaacttg atttatgtnt cttctgtctt ttactttaaa catctaccat ggaccaataa 660

tca 663

<210> 3385
<211> 467

<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-059-Q1-E1-G6

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tcggaaaaat ggaatctttt ttgttcacat ctgaatccgt caacgaggga catcccgaca 120

agctttgtga tcagatctcc gacgctatcc tcgatgcttg ccttgaacaa gaccctgaga 180

gcaaagttgc ttgtgagact tgtaccaaga ctaacatggt catggttttt ggagaaatca 240

ccaccaaggc taacgttgat tacgagcaga ttgttcgtaa aacatgccgt gagattggat 300

tcgtctctgc tgacgttggt ctagatgctg acaattgcaa ggttctggtt aacattgagc 360

aacagagtcc tgacattgca caaggtgttc atggtcatct caccaagaag ccagaggagg 420

ttggagctgg tgaccaaagt cacatgtttg ggtatgctac tgatgag 467

<210> 3386
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-049-Q1-E1-A1

<400> 3386

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tcgcacgccg ttgtatcgtg caggtgtcat acgccattgg tgtcgctgag ccgctctcaa 360

tgtttgttga cacctacaag accgggacca tcccatacaa tgatatcctt gtgttgataa 420

aggaatc 427

<210> 3387
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-015-Q1-E1-G12

<400> 3387

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tgtttgttga cacctacacg accgggacca t 391

<210> 3388
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-013-Q1-E1-A12

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atctgaatcc gtcaacgagg gacatcccga caagctttgt gatcagatct ccgacgctat 120

cctcgatgct tgccttgaac aagaccctga gagcaaagtt gcttgtgaga cttgtaccaa 180

gactaacatg gtcatggttt ttggagaaat caccaccaag gctaacgttg attacgagca 240

gattgttcgt aaaacatgcc gtgagattgg attcgtctct gctgacgttg gtctagatgc 300

tgacaattgc aaggttctgg ttaacattga gcaacagagt cctgacattg cacaaggtgt 360

tcatggtcat ctcaccaaga agccagagga ggttggagct ggtgaccaag gtcacatgtt 420

tgggtatgct actgatg 437

<210> 3389
<211> 332
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-034-Q1-E2-F6

<400> 3389

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cagtcatatg gaatcttttt tggtcacatc tgaatccgtc aacgacggac atcccataca 120

agctttgtga tcaaatccct aacaccaccc tcgatgcgat ccttgaacag gatcctgata 180

gcaaaattgc ttgtaatact tgtaccatga cgaccatggt catggcattt ggagaaatca 240

acaccacggc taactttgat gacaaataga ttgttcgttc agtatgctgt catattggaa 300

tcgactcagc tgacgtaggt caatatgctg ac 332

<210> 3390
<211> 359
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-D5

<400> 3390

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aactcaacag aaatgcaagg cttgtgagaa gactgtttat gctgttgagc ttctctctgc 180

tgatggagtt ggatatcaca agtcttgctt caaatgcact cactgcaaaa gcaggcttca 240

gctgagtagt tactcatcaa tggaaggtgt tttgtactgt aagcctcatt ttgagcagct 300

ctttaaggag agtggtagtt tcaacaagaa ctttcagtca ccctgcaaaa tcggctgac 359

<210> 3391
<211> 362
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-031-Q1-E1-F10

<400> 3391

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caaggagagg gtgagaaaca gaagaagaag gtgagaaaag tgaacgcaag gctttgagga 180

tgtcttttac aggaactcaa cataaatgca aggcttgtga gaagactgtt tatgctgttg 240

agcttctctc tgctgatgga gttggatatc agaagtcttg cttcaaatgc actcactgca 300

taagcaggct tcagctgagt agttactcat caatggaagg tgttttgtac tgtaagcctc 360

at 362

<210> 3392
<211> 388
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-G7

<400> 3392

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ccggcggaaa cttctacaga tgctacagag acgacgattg caacgacgga agctggtgaa 180

gcaccggaga agaaggtgag gaaagcttac acaatcacca agtctagaga gagttggact 240

gaaggagaac acgacaagtt tctggaagct cttcaattgt ttgatcgtga ctggaaaaag 300

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tttctaaaag tccaaaacaa tgggaatt 388

<210> 3393
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-042-Q1-E1-H2

<400> 3393

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ctgacaagct ttgcgaccag atctctgatg cagtccttga tgcctgcctt gagcaagacc 180

ctgatagcaa agttgcttgt gagacatgca ccaagaccaa catggtcatg gttttcggtg 240

agatcaccac caaggctacg attgactacg agaagattgt ccgtgacact tgccgttcca 300

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ttgaacaaca gagcccagac attgctcaag gtgttcac 398

<210> 3394
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-035-Q1-E1-D10

<400> 3394

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catctcttgg ttccttgatc tcttcaacta ctatgtcaat tctgaggaac acgagctttt 180

tagcaaagaa ttgcagcttg attccaaggt gttttacttc gatatcggtg agaacagaag 240

aggacgcttc ttgaaggtgt cagaagcatc ggttagtaga aatcgaagta ccattattgt 300

tccagctgga agctctcctg atgaaggatg ggcagctttc aggaatatat tggctgagat 360

acatgaagca tcaggacttt ttgtgatgcc aaatcagaaa ccttctgatg gacaggaaca 420

ct 422

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<211> 397
<212> DNA
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<223> Clone ID: LIB22-088-Q1-E1-E11

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ctgaagaaga cgagcagctt cgtaggcttg ttgttaaata cggtccaaga aactggacag 180

tgattagcaa atctattccc ggtagatcgg ggaaatcgtg tcgtttacgg tggtgcaacc 240

agctttcgcc gcaagttgag catcggccgt tttcggctga ggaagacgag acgatcgcac 300

gtgctcacgc tcagttcggt aataaatggg cgacgattgc tcgtcttctc aacggtcgta 360

cggacaacgc cgtgaagaat cactggaact cgacgct 397

<210> 3396
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-016-Q1-E1-D11

<400> 3396

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gagtctgtaa acgagggaca cccagacaag ctctgtgacc agatctctga tgcagtcctc 180

gatgcctgcc ttgaacaaga ccctgacagg aaagttgctt gtgagacatg caccaagacc 240

aatatggtca tggtctttgg tgagatcact accatcgcta ctgttgacta cgagaagatt 300

gtccgtgaca cctgtcgcgc cattggattt gtctctgatg atgttggtct tgatgctgac 360

aaatgcacag tcctagtcaa cattgagcaa cagagccaga cattgctc 408

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<211> 319
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-012-Q1-E1-F1

<400> 3397

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cttcttcgag atctgatcgc cgaatctcat aatctcccat cgaagcagaa tggagacttt 120

tctattcaca tctgagtctg taaacgaggg acacccagac aagctctgtg accagatctc 180

tgatgcagtc ctcgatgcct gccttgaaca agaccctgac agcaaagttg cttgtgagac 240

atgcaccaag accaacatgg tcatggtctt tggtgagatc actnaccaag ctactgttga 300

ctacgagaaa gattgtccg 319

<210> 3398
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-026-Q1-E1-D12

<400> 3398

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ttctattcac atctgagtct gtaaacgagg gacacccaga caagctctgt gaccagatct 180

ctgatgcagt cctcgatgcc tgccttgaac aagaccctga cagcaaagtt gcttgtgaga 240

catgcaccaa gaccaacatg gtcatggtct ttggtgagat cactaccaag gctactgttg 300

actacgagaa gattgtccgt gacacctgtc gcgccattgg atttgtctct gatgatgttg 360

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<211> 446
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3399

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atctgagtct gtaaacgagg gacacccaga caagctctgt gaccagatct ctgatgcagt 180

cctcgatgcc tgccttgaac aagaccctga cagcaaagtt gcttgtgaga catgcaccaa 240

gaccaacatg gtcatggtct ttggtgagat cactaccaag gctactgttg actacgagaa 300

gattgtccgt gacacctgtc gcgccattgg atttgtctct gatgatgttg gtcttgatgc 360

tgacaaatgc aaagtcctag tcaacattga gcaacagagc ccagacattg ctcaaggagt 420

tcacggtcac ttcancaaat gtcctg 446

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-010-Q1-E1-B7

<400> 3400

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ctgacaaatg caaagtccta gtcaacattg agcaacagag cccagacatt gctcaaggag 180

ttcacggtca cttcaccaaa tgtcctgaag aaattggagc cggtgaccat gggcacatgt 240

ttggttatgc cactgatgaa atccctgagt taatgcccct gatccatgtt cttgccacca 300

agctcggtgc tcgcctaaca tgagtcagaa acaatggcac atgcgcctgg ctaagacctg 360

a 361

<210> 3401
<211> 396
<212> DNA
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<223> Clone ID: LIB22-032-Q1-E1-D5

<400> 3401

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tctcataatc tcccatcgaa gcagaatgga gacttttcta ttcacatctg agtctgtaaa 120

cgagggacac ccagacaagc tctgtgacca gatctctgat gcagtcctcg atgcctgcct 180

tgaacaagac cctgacagca aagttgcttg tgagacatgc accaagacca acatggtcat 240

ggtctttggt gagatcacta ccaaggctac tgttgactac gagaagattg tccgtgacac 300

ctgtcgcgcc attggatttg tctctgatga tgttggtctt gatgctgaca aatgcaaagt 360

cctagtcaac attgagcaac agagcccaga cattgc 396

<210> 3402
<211> 414
<212> DNA
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<223> Clone ID: LIB22-050-Q1-E1-D9

<400> 3402

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tcttcgagat ctgatcgccg aatctcataa tctcccatcg aagcagaatg gagacttttc 120

tattcacatc tgagtctgta aacgagggac acccagacaa gctctgtgac cagatctctg 180

atgcagtcct cgatgcctgc cttgaacaag accctgacag caaagttgct tgtgagacat 240

gcaccaagac caacatggtc atggtctttg gtgagatcac taccaaggct actgttgact 300

acgagaagat tgtccgtgac acctgtcgcg ccattggatt tgtctctgat gatgttggtc 360

ttgatgctga caaatgcaaa gtcctagtca acattgagca acagagccca gaca 414

<210> 3403
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-005-Q1-E1-A9

<400> 3403

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gacaccctga caagctttgc gaccagatct ctgatgcagt ccttgatgcc tgccttgagc 180

aataccctga tagcaaagtt gcttgtgaga catgcaccaa gaccaacatg gtcatggttt 240

tcggtgagat caccaccaag gctacgattg actacgacaa gattgtccgt gacacatgcc 300

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ttaacattga acaacaga 378

<210> 3404
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-071-Q1-E1-A5

<400> 3404

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tttgcgacca gatctctgat gcagtccttg atgcctgcct tgagcaagac cctgatagca 180

gagttgcttg tgagacatgc accaagacca acatggtcat ggttttcggt gagatcacca 240

ccaaggctac gattgactac gagaagattg tccgtgacac ttgccgttcc attggattca 300

tctctgacga tgttggtctt gatgctgaca aatgcaaagt ccttggtaac attgaacagc 360

agagcccaga cattgctcaa ggtgttcacg gtca 394

<210> 3405
<211> 420

<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-035-Q1-E1-C11

<400> 3405

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agactttcct attcacatct gagtctgtga acgaaggaca ccctgacaag ctttgcgacc 180

agatctctga tgcagtcctt gatgcctgcc ttgagcaaga ccctgatagc aaagttgctt 240

gtgagacatg caccaagacc aacatggtca tggttttcgg tgagatcacc accaaggcta 300

cgattgacta cgagaagatt gtccgtgaca cttgccgttc cattggattc atctctgacg 360

atgttggtct tgatgctgac aaatgcaaag tccttgttaa cattgaacaa cagagcccag 420

<210> 3406
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-063-Q1-E1-C10

<400> 3406

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atcgccgcag ctttaagaaa tggagacttt cctattcaca tctgagtctg tgaacgaagg 120

acaccctgac aagctttgcg accagatctc tgatgcagtc cttgatgcct gccttgagca 180

agaccctgat agcaaagttg cttgtgagac atgcaccaag accaacatgg tcatggtttt 240

cggtgagatc accaccaagg ctacgattga ctacgagaag attgtccgtg acacttgccg 300

ttccattgga gtcatctctg acgatgttgg tcctgatgct gacaaatgca aagtccttgt 360

taacattgaa catcagagcc cagacattgc 390

<210> 3407
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<212> DNA
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<223> Clone ID: LIB22-015-Q1-E1-D12

<400> 3407

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tctctaatcg ccgcagcttt aagaaatgga gactttccta ttcacatctg agtctgtgaa 120

cgaaggacac cctgacaagc tttgcgacca catctctgat gcagtccttg atgcctgcct 180

tgagcaagac cctgatagca aagttgcttg tgagacatgc accaagacca acatggtcat 240

ggttttcggt gagatcacca ccaaggctac gattgactac gagaagattg tccgtgacac 300

ttgccgttcc attggattca tctctgacga tgttggtctt gatgctgaca aatgcacagt 360

ccttgttaac attgaacaac agagcccata cattgct 397

<210> 3408
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-A1

<400> 3408

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gacaccctga caagctttgc gaccagatct ctgatgcagt ccttgatgcc tgccttgagc 180

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tcggtgagat caccaccaag gctacgattg actacgagaa gattgtccgt gacacttgcc 300

gttccattgg attcatctct gacgaagttg gtcttgatgc tgacaaatgc aaagtccttg 360

gtaacattga acaacagagc ccagacattg ctcaaggtgt tcacggtcac 410

<210> 3409
<211> 402
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<223> Clone ID: LIB22-026-Q1-E1-B1

<400> 3409

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taatcgccgc agctttaaga aatggagact ttcctattca catctgagtc tgtgaacgaa 120

ggacaccctg acaagctttg cgaccagatc tctgatgcag tccttgatgc ctgccttgag 180

caagaccctg atagcaaagt tgcttgtgag acatgcacca agaccaacat ggtcatggtt 240

ttcggtgaga tcaccaccaa ggctacgatt gactacgaga agattgtccg tgacacttgc 300

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gttaacattg aacaacagag cccagacatt gctcaaggtg tt 402

<210> 3410
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<223> Clone ID: LIB22-004-Q1-E1-F4

<400> 3410

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attgagcaac agagcccaga cattgctcaa ggagttcacg gtcacttcac caaatgtcct 120

gaagaaattg gagccggtga ccaagggcac atgtttggtt atgccactga tgaaacccct 180

gagttaatgc ccctgagcca tgttcttgcc accaagctcg gtgctcgcct aacagaagtc 240

agaaagaatg gtacttgcgc ctggctaaga cctgacggca aaacccaagt cactgttgag 300

tactacaatg acaagggtgc catggtccca atccgtgtcc acacagtcct catctccacc 360

caacacgatg aaactgtgac caacgacgaa attgcccgtg acct 404

<210> 3411
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-E8

<400> 3411

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aggacaccca gacaagcttt gtgaccagat ttctgatgcg atccttgatg cttgcttaga 240

gcaagatcct gaaagcaaag tggcgtgtga gacatgcacc aagaccaaca tggtgatggt 300

gtttggtgag atcactaccg ctgcgaaagt tgactatgag aagattgtta gatccacttg 360

cagggagatt ggttttatct ctgctgatgt tggtcttgac gctgacaaat gcaatgtttt 420

gg 422

<210> 3412
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-A1

<400> 3412

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agaagtacct agacgagaaa accatcttcc acttgaaccc ttcaggccga ttcgtcatcg 180

gtggacccca tggagacgct ggtctcaccg ggcgtaagat catcatcgac acttacggtg 240

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nggctcttgt tcaggtctca tacgccattg gagtccctga 400

<210> 3413
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-042-Q1-E1-C11

<400> 3413

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ctatcccacc acttctaaag ctggctggtg agctctctct gagtgtcaag tctgtgaagt 180

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ccagcaactg caacaacaat gtctacactc tcgagatgtg catgactggt ctggaca 417

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<212> DNA
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<223> Clone ID: LIB22-005-Q1-E1-A7

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gcttgatgaa attcttacac ctgctgcatg cacgatcgtt tcatctctct ccaacgatca 180

attggactct tacgtactct ctgagtccag cttctttgtc tacccctaca aagtcatcat 240

caagacttgc ggtaccacta agctcctcct ctctatccca ccacttctaa agctggctgg 300

tgagctctct ctgagtgtca agtctgtgaa gtacactcgc ggctccttcc tctgccccgg 360

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tactc 425

<210> 3415
<211> 434
<212> DNA
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<223> Clone ID: LIB22-042-Q1-E1-E5

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aaacaaggag ttcataattc gcgatcttga tctatcgatc ttcatttata tataaaagcg 180

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agaaattcaa atcttctgtc tactcaaact gctccaagag gccatcctga gtaccagcgt 360

gcaccgatct tcataatata gttatagctt tctttacttt ccagtttata attttcctct 420

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<210> 3416

<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-041-Q1-E1-F12

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ttgatatctg gagaaagggg tttctggaaa caaggagttc ataattcgcg atcttgatct 180

atcgatcttc atttatatat aaaagcgtga atgagattat gatggagtcg aaaggtggta 240

aaaagaagtc cagcagtagt agttccttat tttacgaagc tcccctcggt tacagcattg 300

aagacgttcg tccaaacggt ggaatcaaga aattcaaatc ttctgtctac tcaaactgct 360

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ttacat 426

<210> 3417
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-050-Q1-E1-E6

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tatctggaga aaggggtttc tggaaacaag gagttcataa ttcgcgatct tgatctatcg 180

atcttcattt atatataaaa gcgtgaatga gattatgatg gagtcgaaag gtggtaaaaa 240

gaagtccagc agtagtagtt ccttatttta cgaagctccc ctcggttaca gcattgaata 300

cgttcgtcca aacggtggaa tcaagaaatt caaatcttct gtctactcaa actgctccaa 360

gaggccatcc tgagtaccag cgtgcaccga tcttcataat atagttatag ctttctttac 420

ttt 423

<210> 3418
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<212> DNA

<213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-E3

<400> 3418

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cttcatttat atataaaagc gtgaatgaga ttatgatgga gtcgaaaggt ggtaaaaaga 240

agtccagcag tagtagttcc ttattttacg aagctcccct cggttacagc attgaagacg 300

ttcgtccaaa cggtggaatc aagaaattca aatcttctgt ctactcaaac tgctccaaga 360

ggccatcctg agtaccagcg tgcaccgatc ttcataatat agttatagct ttctttactt 420

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<212> DNA
<213> Arabidopsis thaliana

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cttcaacaga aatggaaacg ttcctattta cctctgaatc cgtcaatgaa ggacacccag 180

acaagctttg tgaccagatt tctgatgcga tccttgatgc ttgcttagag caagatcctg 240

aaagcaaagt ggcgtgtgag acatgcacca ngaccaacat ggtgatggtg tttggtgaga 300

tcactaccgc tgcgaaagtt gactatgag 329

<210> 3420
<211> 374
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-083-Q1-E2-D1

<400> 3420

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tctacttcct tcaacagaaa tggaaacgtt cctatttacc tctgaatccg tcaatgaagg 180

acacccagac aagctttgtg accagatttc tgatgcgatc cttgatgctt gcttagagca 240

agatcctgaa agcaaagtgg cgtgtgagac atgcaccaag accaacatgg tgatggggtc 300

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ggggagaatg gttt 374

<210> 3421
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-076-Q1-E1-G8

<400> 3421

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tttctggaaa caaggagttc ataattcgcg atcttgatct atcgatcttc atttatatat 180

aaaagcgtga atgagattat gatggagtcg aaaggtggta aaaagaagtc cagcagtagt 240

agttccttat tttacgaagc tcccctcggt tacagcattg aagacgttcg tccaaacggt 300

ggaatcaaga aattcaaatc ttctgtctac tcaaactgct ccaagaggcc atcctgagta 360

ccagcgtgca ccgatcttca taatatagtt atagctttct ttactttcca gtttataatt 420

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<210> 3422
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<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3422

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cttccttcaa cagaaatgga aacgttccta tttacctctg aatccgtcaa tgaaggacac 180

ccagacaagc tttgtgacca gatttctgat gcgatccttg atgcttgctt agagcaagat 240

cctgaaagca aagtggcgtg tgagacatgc nacaagacca acatggtgat ggtgtttggt 300

gagatcacta ccgctgcgaa agttgactat gagaagattg ttagatccac ttgcagggag 360

attggtttta tccctgctga tgttg 385

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-G4

<400> 3423

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gaaatggaaa cgttcctatt tacctctgaa tccgtcaatg aaggacaccc agacaagctt 180

tgtgaccaga tttctgatgc gatccttgat gcttgcttag agcaagatcc tgaaagcaaa 240

gtggcgtgtg agacatgcac caagaccaac atggtgatgg tgtttggtga gatcactacc 300

gctgcgaaag ttgactatga gaagattgtt agatccactt gcagggagat tggttttatc 360

tctgctgatg ttggtcttga cgctgacaaa tgcaatgttt tgggt 405

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-082-Q1-E1-A11

<400> 3424

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tctctacttc cttcaacaga aatggaaacg ttcctattta cctctgaatc cgtcaatgaa 180

ggacacccag acaagctttg tgaccagatt tctgatgcga tccttgatgc ttgcttagag 240

caagatcctg aaagcaaagt ggcgtgtgag acatgcacca agaccaacat ggtgatggtg 300

tttggtgaga tcactaccgc tgcgaaagtt gactatgaga agattgttag atccacttgc 360

agggagattg gttttatctc tgctgatgtt ggtcttgacg ctgacaaatg caa 413

<210> 3425
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-004-Q1-E1-F9

<400> 3425

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cctctctact tccttcaaca gaaatggaaa cgttcctatt tacctctgaa tccgtcaatg 180

aaggacaccc agacaagctt tgtgaccaga tttctgatgc gatccttgat gcttgcttag 240

agcaagatcc tgaaagcaaa gtggcgtgtg agacatgcac caagaccaac atggtgatgg 300

tgtttggtga gatcactacc gctgcgaaag ttgactatga gaagattgtt agatccactt 360

gcagggagat tggttttatc tctgctgatg ttggtcttga cgctgacaaa tgcaatg 417

<210> 3426
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-039-Q1-E1-H2

<400> 3426

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aataaatctc tctctctttc ttctctatcg ctttcatttt tctcctccag atctcgattc 120

caatctctct ccctctctac ttccttcaac agaaatggaa acgttcctat ttacctctga 180

atccgtcaat gaaggacacc cagacaagct ttgtgaccag atttctgatg cgatccttga 240

tgcttgctta gagcaagatc ctgaaagcaa agtggcgtgt gagacatgca ccaagaccaa 300

catggtgatg gtgtttggtg agatcactac cgctgcgaaa gttgactatg agaagattgt 360

tagattcact tgcagggaga ttggttttat ctctgctgat gttggtcttg acgctg 416

<210> 3427
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-036-Q1-E1-F10

<400> 3427

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tctacttcct tcaacagaaa tggaaacgtt cctatttacc tctgaatccg tcaatgaagg 180

acacccagac aagctttgtg accagatttc tgatgcgatc gttgatgctt gcttagagca 240

agatcctgaa agcaaagtgg cgtgtgagac atgcaccaag accaagatgg tgatggtgtt 300

tggtgagatc actagcgctg cgaaagttga ctatgagagg attgttagat ccacttgcag 360

ggagattgga tttatctctg ctgatgttgg tcttgacgct ga 402

<210> 3428
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-039-Q1-E1-B12

<400> 3428

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gggtttctgg aaacaaggag ttcataattc gcgatcttga tctatcgatc ttcatttata 180

tataaaagcg tgaatgagat tatgatggag tcgaaaggtg gtaaaaagaa gtccagcagt 240

agtagttcct tattttacga agctcccctc ggttacagca ttgaagacgt tcgtccaaac 300

ggtggaatca agaaattcaa atcttctgtc tactcaaact gctccaagag gccatcctga 360

gtaccagcgt gcaccgatct tcataatata gttatagctt tctttacttt cc 412

<210> 3429
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-007-Q1-E1-C9

<400> 3429

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ctcgaactcg agctcgccga agttgagatg cctggactca tggcttgtcg taccgaattc 180

ggaccttctc agccattcaa aggcgctaga atcaccggat ctcttcacat gaccatccaa 240

accgccgtac tcatcgaaac cctaactgct ctcggtgctg aagtcagatg gtgttcctgc 300

aacatctttt ccactcaaga ccacgccgcc gcagccatcg ctcgtgactc cgccgctgtt 360

ttcgcctgga aaggtgagac tcttcaggag tactggtggt gtaccgagcg tgct 414

<210> 3430
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-048-Q1-E1-B4

<400> 3430

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ctcgaactcg agctcgccga agttgagatg cctggactca tggcttgtcg taccgaattc 180

ggaccttctc agccattcaa aggcgctaga atcaccggat ctcttcacat gaccatccaa 240

accgccgtac tcatcgaaac cctaactgct ctcggtgctg aagtcagatg gtgttcctgc 300

aacatctttt ccactcaaga ccacgccgcc gcagccatcg ctcgtgactc cgccgctgtt 360

ttcgcctgga aaggtgagac tcttcaggag tactggtggt gtaccgagcg tg 412

<210> 3431
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-052-Q1-E1-C3

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gagctcgccg aagttgagat gcctggactc atggcttgtc gtaccgaatt cggaccttct 180

cagccattca aaggcgctag aatcaccgga tctcttcaca tgaccatcca aaccgccgta 240

ctcatcgaaa ccctaactgc tctcggtgct gaagtcagat ggtgttcctg caacatcttt 300

tccactcaag accacgccgc cgcagccatc gctcgtgact ccgccgctgt tttcgcctgg 360

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<210> 3432
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-008-Q1-E1-D11

<400> 3432

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tcgtctcgaa ctcgagctcg ccgaagttga gatgcctgga ctcatggctt gtcgtaccga 180

attcggacct tctcagccat tcaaaggcgc tagaatcacc ggatctcttc acatgaccat 240

ccaaaccgcc gtactcatcg aaaccctaac tgctctcggt gctgaagtca gatggtgttc 300

ctgcaacatc ttttccactc aagaccacgc cgccgcagcc atcgctcgtg actccgccgc 360

tgttttcgcc tggaaaggtg agactcctca ggagtactgg tggtgntacg agcgtgct 418

<210> 3433
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-022-Q1-E1-D6

<400> 3433

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gaagacctca agtggccgtg aatacaaggt caaagacatg tctcaagccg atttcggtcg 120

tctcgaactc gagctcgccg aagttgagat gcctggactc atggcttgtc gtaccgaatt 180

cggaccttct cagccattca aaggcgctag aatcaccgga tctcttcaca tgaccatcca 240

aaccgccgta ctcatcgaaa ccctaactgc tctcggtgct gaagtcagat ggtgttcctg 300

caacatcttt tccactcaag accacgccgc cgcagccatc gctcgtgact ccgccgctgt 360

tttcgcctgt aaaggtgaga ctcgtcatga gtactggtgg tgtaccgagc gtgctctaga 420

ttggggt 427

<210> 3434
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-045-Q1-E1-E2

<400> 3434

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tcaagccgat ttcggtcgtc tcgaactcga gctcgccgaa gttgagatgc ctggactcat 180

ggcttgtcgt accgaattcg gaccttctca gccattcaaa ggcgctagaa tcaccggatc 240

tcttcacatg accatccaaa ccgccgtact catcgaaacc ctaactgctc tcggtgctga 300

agtcagatgg tgttcctgca acatcttttc cactcaagac cacgccgccg cagccatcgc 360

tcgtgactcc gccgctgttt tcgcctggaa aggtgagact cttcaggagt actggtggtg 420

taccgagcgt gctctaga 438

<210> 3435
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-087-Q1-E1-C11

<400> 3435

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caagccgatt tcggtcgtct cgaactcgag ctcgccgaag ttgagatgcc tggactcatg 180

gcttgtcgta ccgaattcgg accttctcag ccattcaaag gcgctagaat caccggatct 240

cttcacatga ccatccaaac cgccgtactc atcgaaaccc taactgctct cggtgctgaa 300

gtcagatggt gttcctgcaa catcttttcc actcaagacc acgccgccgc agccatcgct 360

cgtgactccg gcgctgtttt cgcctggaaa ggtgagactc ttcaggagta ctggtggtgt 420

accgagcgtg ctccagattg gggt 444

<210> 3436
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-083-Q1-E1-G5

<400> 3436

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aagccgattt cggtcgtctc gaactcgagc tcgccgaagt tgagatgcct ggactcatgg 180

cttgtcgtac cgaattcgga ccttctcagc cattcaaagg cgctagaatc accggatctc 240

ttcacatgac catccatacc gccgtactca tcgaaaccct aactgctctc ggtgctgaag 300

tcagatggtg ttcctgcaac atcttttcga ctcaagacca tgccgccgca gccatcgctc 360

gtgactccgc cgctgttttc gcctggaaag gtgagactct tcaggagtac tggtggtgta 420

ccgagcgtgc tctagattgt ggtccaggtg gt 452

<210> 3437
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-082-Q1-E2-F5

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tcaagccgat ttcggtcgtc tcgaactcga gctcgccgaa gttgagatgc ctggactcat 180

ggcttgtcgt accgaattcg gaccttctca gccattcaaa ggcgctagaa tcaccggatc 240

tcttcacatg accatccaaa ccgccgtact catcgaaacc ctaactgctc tcggtgctga 300

agtcagatgg tgttcctgca acatcttttc cactcaagac cacgccgccg cagccatcgc 360

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taccgagcgt gctctagatt ggggtcca 448

<210> 3438
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-011-Q1-E1-C4

<400> 3438

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ttttgttccc tgccattaac gttaacgact ctgtcaccaa gagcaagttc gacaacttgt 180

atggttgccg tcactcactc cctgatggtc tcatgagggc cactgatgtc atgatcgctg 240

gaaacgttgc tgttatctgt ggatatggtg atgttggaaa gggttgtgct gctgccatga 300

agactgctgg tgctatagtc attgtgactg agattgatcc catctgtgcc cttcaagctt 360

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tcaccaccac cggtaacaaa gacatcatca t 451

<210> 3439
<211> 438
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-006-Q1-E1-F4

<400> 3439

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gagctcgccg aagttgagat gcctggactc atggcttgtc gtaccgaatt cggaccttct 180

cagccattca aaggcgctag aatcaccgga tctcttcaca tgaccatcca aaccgccgta 240

ctcatcgaaa ccctaactgc tctcggtgct gaagtcagat ggtgttcctg caacatcttt 300

tccactcaag accacgccgc cgcagccatc gctcgtgact ccgccgctgt tttcgcctgg 360

aaaggtgaga ctcttcagga gtactggtgg tgtaccgagc gtgctctaga ttgnggtcca 420

agtggtggtc ctgatctg 438

<210> 3440
<211> 534
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-011-Q1-K1-C4

<400> 3440

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ttttgttccc tgccattaac gttaacgact ctgtcaccaa gagcaagttc gacaacttgt 180

atggttgccg tcactcactc cctgatggtc tcatgagggc cactgatgtc atgatcgctg 240

gaaaggttgc tgttatctgt ggatatggtg atgttggaaa gggttgtgct gctgccatga 300

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tcaccaccac cggtaacaaa gacatcatca tggtcgacca catgaggaag atgaagaaca 480

acgctattgt gtgcaacatt ggtcactttg acaatgagat tgacatgctt ggac 534

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-059-Q1-E1-C1

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gacttcaggt tcttaccctt gaggatgttg tctcagaagc tgatatcttt gtcaccacca 180

ccggtaacaa agacatcatc atggtcgacc acatgaggaa gatgaagaac aacgctattg 240

tgtgcaacat tggtcacttt gacaatgaga ttgacatgct tggacttgag acttaccctg 300

gtgtgaagcg tatcaccatc aagccacaga ctgacaggtg ggtgttccca gagaccaagg 360

ctggaatcat tgtcttggct gagggtcgtc tgatgaactt gggttgtgcc actggtcacc 420

caagtttcgt gatgtcttgc tctttcacca accaggtgat 460

<210> 3442
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3442

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gagggtgtta aagctgagga gatctttgag aagactggtc aagttcctga tcctacttct 180

actgataacc ctgagtttca gatcgtgttg tctattatca aggaaggtct tcaagttgat 240

cctaagaagt accacaagat gaaggagaga cttgttggtg tctctgagga aactaccact 300

ggtgttaaga ggctttacca gatgcagcan aatggaactc ttttgttccc tgccattaac 360

gttaacgact ctgtcaccaa gagcaagttc gacaacttgt atggttgccg tcactcactc 420

cctgatggtc tcatgagggc cactgatg 448

<210> 3443
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-023-Q1-E1-B10

<400> 3443

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tgcaacattg gtcactttga caatgagatt gacatgcttg gacttgagac ttaccctggt 180

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ggaatcattg tcttggctga gggtcgtctg atgaacttgg gttgtgccac tggtcaccca 300

agtttcgtga tgtcttgctc tttcaccaac caggtgattg cccagctcga gctctggaac 360

gagaaagcaa gcggaaagta cgagaagaag gtgtacgtgc ttcccacgca tttgga 416

<210> 3444
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-082-Q1-E1-E11

<400> 3444

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cgagctcgcc gaagttgaga tgcctggact catggcttgt cgtaccgaat tcggaccttc 180

tcagccattc aaaggggcta gaatcaccgg atctcttcac atgaccatcc aaaccgccgt 240

agtcatcgag aaccctaact gctctcggtg ctgaagtcag atggtgttcc tgcaagatct 300

tttccactca agaccacgcc gccgcaacca tcgctcgtga ctccgccgct gttttcgcct 360

ggaaag 366

<210> 3445
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-060-Q1-E1-D7

<400> 3445

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cgagctcgcc gaagttgaga tgcctggact catggcttgt cgtaccgaat tcggaccttc 180

tcagccattc aaaggcgcta gaatcagcgg atctcttcac atgaccatcc aaaccgccgt 240

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ttcgactcaa gaccacgccg ccggagccat cgctcgtgac tccgccgctg ttttcgcctg 360

gaaaggtgag actcttcagg agtactggtg gtgtaccgag cgtgct 406

<210> 3446
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-089-Q1-E1-E10

<400> 3446

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tcgaaaccct aactgctctc ggtgctgaag tcagatggtg ttcctgcaac atcttttcca 180

ctcaagacca cgccgccgca gccatcgctc gtgactccgc cgctgttttc gcctggaaag 240

gtgagactct tcaggagtac tggtggtgta ccgagcgtgc tctagattgg ggtccaggtg 300

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ttaaagctga ggagatcttt gagaagactg gtcaagttcc tgatcctac 409

<210> 3447
<211> 376
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-022-Q1-E1-A6

<400> 3447

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gagctcgccg aagttgagat gcctggactc atggcttgtc gtaccgaatt cggaccttct 180

cagccattca aaggcgctag aatcaccgga tctcttcaca tgaccatcca aaccgccgta 240

ctcatcgaga ccctaactgc tctcggtgct gaagtcagat ggtgttcctg caacatcgtt 300

tccactcaag accacgccgc cgcagccatc gctcgtgact ccgccgctgt tttcgcctgg 360

aaaggtgaga ctcttc 376

<210> 3448
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-A10

<400> 3448

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agaagacctc aagtggccgt gaatacaagg tcaaagacat gtctcaagcc gatttcggtc 120

gtctcgaact cgagctcgcc gaagttgaga tgcctggact catggcttgt cgtaccgaat 180

tcggaccttc tcagccattc aaaggcgcta gaatcaccgg atctcttcac atgaccatcc 240

aaaccgccgt actcatcgaa accctaactg ctctcggtgc tgaagtcaga tggtgttcct 300

gcaacatctt ttccactcaa gaccacgccg ccgcagccat cgctcgtgac tccgccgctg 360

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<223> Clone ID: LIB22-080-Q1-E2-D10

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gagctcgccg aagttgagat gcctggactc atggcttgtc gtaccgaatt cggaccttct 180

cagccattca aaggcgctag aatcaccgga tctcttcaca tgaccatcca aaccgccgta 240

ctcatcgaaa ccctaactgc tctcggtgct gaagtcagat ggtgttcctg caacatcttt 300

tccactcaag accacgccgc cgcagccatc gctcgtgact ccgccgctgt ttcgcctgg 360

aaaggtgaga ctcttcaaga gtactggtg 389

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<223> Clone ID: LIB22-063-Q1-E1-B3

<400> 3450

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gtctcgaact cgagctcgcc gaagttgaga tgcctggact catggcttgt cgtaccgaat 180

tcggaccttc tcagccattc aaaggcgcta gaatcaccgg atctcttcac atgaccatcc 240

aaaccgccgt actcatcgaa accctaactg ctctcggtgc tgaagtcaga tggtgttcct 300

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-H12

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accatggcgt tgctcgtcga gaagacctca agtggccgtg aatacaaggt caaagacatg 120

tctcaagccg atttcggtcg tctcgaactc gagctcgccg aagttgagat gcctggactc 180

atggcttgtc gtaccgaatt cggaccttct cagccattca aaggcgctag aatcaccgga 240

tctcttcaca tgaccatcca aaccgccgta ctcatcgaaa ccctaactgc tctcggtgct 300

gaagtcagat ggtgttcctg caacatcttt tccactcaag accacgccgc cgcagccatc 360

gctcgtgact ccgccgctgt ttcgcctgg aaaggtgaga ctcttcagga gtactg 416

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-081-Q1-E2-G7

<400> 3452

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tcaagccgat ttcggtcgtc tcgaactcga gctcgccgaa gttgagatgc ctggactcat 180

ggcttgtcgt accgaattcg gaccttctca gccattcaaa ggcgctagaa tcaccggatc 240

tcttcacatg accatccaaa ccgccgtact catcgaaacc ctaactgctc tcggtgctga 300

agtcagatgg tgttcctgca acatcttttc cactcaagac cacgccgccg cagccatcgc 360

tcgtgactcc gccgctgttt tcgcctggaa aggtgagact cttcaggagt actggtgg 418

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-025-Q1-E1-G5

<400> 3453

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ccgaagttga gatgcctgga ctcatggctt gtcgtaccga attcggacct tctcagccat 180

tcaaaggcgc tagaatcacc ggatctcttc acatgaccat ccaaaccgcc gtactcatcg 240

aaaccctaac tgctctcggt gctgaagtca gatggtgttc ctgcaacatc ttttccactc 300

aagaccacgc cgccgcagcc atcgctcgtg actccgccgc tgttttcgcc tggaaaggtg 360

agactcttca ggagtactgg tggtgtaccg agcgtgctct agattggg 408

<210> 3454
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-056-Q1-E1-F10

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gcgctagaat caccggatct cttcacatga ccatccaaac cgccgtactc atcgaaaccc 240

taactgctct cggtgctgaa gtcagatggt gttcctgcaa catcttttcc actcaagacc 300

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ttcaggagta ctggtggtgt accgagcgtg ctctagattg ggg 403

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<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-032-Q1-E1-B6

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ccctgccatt aacgttaacg actctgtcac caagagcaag ttcgacaact tgtatggttg 120

ccgtcactca ctccctgatg gtctcatgag ggccactgat gtcatgatcg ctggaaaggt 180

tgctgttatc tgtggatatg gtgatgttgg aaagggttgt gctgctgcca tgaagactgc 240

tggtgctaga gtcattgtga ctgagattga tcccatctgt gcccttcaag ctttgatgga 300

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caccggtaac aaagacatca tcatggtcga acacattaag gagatgaaga ac 412

<210> 3456
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-059-Q1-E1-A8

<400> 3456

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ctagctcaac catggcgttg ctcgtcgaga agacctcaag tggccgtgaa tacaaggtca 120

aagacatgtc tcaagccgat ttcggtcgtc tcgaactcga gctcgccgaa gttgagatgc 180

ctggactcat ggcttgtcgt accgaattcg gaccttctca gccattcaaa ggcgctagaa 240

tcaccggatc tcttcacatg accatccaaa ccgccgtact catcgaaacc ctaactgctc 300

tcggtgctga agtcagatgg tgttcctgca acatcttttc cactcaagac cacgccgccg 360

cagccatcgc tcgtgactcc cgcgctgttt tcgcctggaa aggtgagact cctcaggagt 420

actggtggtg taccga 436

<210> 3457
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-036-Q1-E1-E9

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ctcgaactcg agctcgccga agttgagatg cctggactca tggcttgtcg taccgaattc 180

ggaccttctc agccattcaa aggcgctaga atcaccggat ctcttcacat gaccatccaa 240

accgccgtac tcatcgaaac cctaactgct ctcggtgctg aagtcagatg gtgttcctgc 300

aacatcgttt ccactcaaga ccacgccgcc gcagccatcg ctcgtgactc cgccgctgtt 360

ttcgcctgga aaggtgagac tcttcaggag tactggtggt gtaccgagcg 410

<210> 3458
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-032-Q1-E1-H1

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tcgtcgagaa gacctcaagt ggccgtgaat acaaggtcaa agacatgtct caagccgatt 120

tcggtcgtct cgaactcgag ctcgccgaag ttgagatgcc tggactcatg gcttgtcgta 180

ccgaattcgg accttctcag ccattcaaag gcgctagaat caccggatct cttcacatga 240

ccatccaaac cgccgtactc atcgaaaccc taactgctct cggtgctgaa gtcagatggt 300

gttcctgcaa catcttttcc actcaagacc acgccgccgc agccatcgct cgtgactccg 360

ccgctgtttt cgcct 375

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-021-Q1-E1-A11

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gctcgccgaa gttgagatgc ctggactcat ggcttgtcgt accgaattcg gaccttctca 180

gccattcaaa ggcgctagaa tcaccggatc tcttcacatg accatccaaa ccgccgtact 240

catcgaaacc ctaactgctc tcggtgctga agtcagatgg tgttcctgca acatcttttc 300

cactcaagac cacgccgccg cagccatcgc tcgtgactcc gccgctgttt tcgcctggaa 360

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<210> 3460
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-H4

<400> 3460

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ttcggtcgtc tcgaactcga gctcgccgaa gttgagatgc ctggactcat ggcttgtcgt 180

accgaattcg gaccttctca gccattcaaa ggcgctagaa tcaccggatc tcttcacatg 240

accatccaaa ccgccgtact catcgaaacc ctaactgctc tcggtgctga agtcagatgg 300

tgttcctgca acatcttttc cactcaagac cacgccgccg caagccatcg ctcgtgactc 360

cgccgctgtt ttcncccgga aanggggnaa ccctcaaggn ntacgggggg gtgttccgaa 420

nggtgcncaa aattggggtc aaggtggggg gcccngatt 459

<210> 3461
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3461

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gggatctaag ctcttttcat cgaacatgcc ttgctctact gttcctagac gcacaagaag 180

atcacactgc tttgcttctg ctaaagatat gagctttgac catatcccta aacaatttcg 240

tggagacaat ctcaaagacg gagtgatgca gaacttcaag aacgtaccac aatattttta 300

cgggcttaat tcagctcaaa tggatatgtt catgacagaa gatagccctg tccgtangca 360

agcgggaaaa agttacaaga gggaaagcat ctccgtccta aaaaataacn atttggaaaa 420

agggggggaa atagggatta ttccggg 447

<210> 3462
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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<400> 3462

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agagagagag atttaaggaa ggaatcatgg caggggggtgg agctccagca cccaaagcag 180

acgaaccaca accacatcct cctaaagatc aacttcccaa catttcttat tgcatcacca 240

gtcctcctcc ttggcctgaa gctattcttc ttggattcca acattacctt gtgatgcttg 300

ggacaacggt gctcatacct actgctcttg ttccccagat gggaggtgga tatgaagaga 360

aagcaaaggt gattcaaact aatctctttg gttgccgggg atcaaaanaa tggnccaaaa 420

annntgtttc gggaaaaaaa tttnccg 447

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<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-089-Q1-E1-H9

<400> 3463

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cgcggtggcg gaagatgtgg agagaagcaa aaccacggtg ttatgggcgg cgcgtaactt 120

ttccggcaag aagatttgct tgctttatgt tcatcgaact gctcgcgctg cctcctggac 180

gcacaagaaa cttgttggtg gtagctttaa aaagcatgat gtcaaggtga ttgagcgagt 240

tgagaaaccc aaagtggatg aactgatgaa ttcttatctc caacttttat ctgaaactga 300

gattcaaaca gataaacttt gcattgcggg gcaaaatatc gaggaatgta tcgtagaact 360

aattgctcgg cacaaaatta aagttggtta gtaatgggga actgcatcaa at 412

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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-047-Q1-E1-A5

<400> 3464

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<210> 3465
<211> 378
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-066-Q1-E1-C5

<400> 3465

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aaaaggcgtt gttcgtcaag aagacctcaa gtggtcgtga atacagtgtc aaagacatgt 120

cacaagccga tatcggtcgt cacgaactcg agctcgccga agttgagatg cctggacaca 180

aggcttgtcg taacaaagtc agagcttctc agccagtcac aagcactata atcaccggat 240

ctcgtcacat gagcatccaa aacgacgtag tcaacgaaac ccgaaatgct ctcagtgctg 300

aagtcagatg gtgtacttgc aacaacgttt caagtcaaga acactccggc gcaggtatcg 360

ctcgagacac cgcagctg 378

<210> 3466
<211> 326
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-003-Q1-E1-E4

<400> 3466

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aagttgagat gcctggactc atgggctgtc gtaccgaatt cgggccttcg cagccattca 180

aaggcgctag aatcagcgga tctcttcaga tgacgatcaa aaccgccgta ctcatcgaaa 240

ccctaagctg ctctcggtgc tgaactcaga tggtgttcct gctagatcat ttccactcaa 300

gaccacgccg ccgctagcat cgctcg 326

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<211> 346
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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gagatgcctg gactcatggc ttgtcgntac caaattcgga ccttccaagc aatcaaaagg 180

cgccagaatc aacgggtttc ctcaaaataa caaccaaaac ggcgttatca accaaaacct 240

aactggtccc ggtgccgaag tcaaatgggg gtcctggaac aacctttcca atcaagaaca 300

agccggcgga accatcgctc gtgactccgc cgctgttttc gcctgg 346

<210> 3468
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<212> DNA
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<223> Clone ID: LIB22-065-Q1-E1-C12

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gatttcggtc gtctcgaact cgagctcgcc gaagttgaga tgcctggact catggcttgt 180

cgtaccga 188

<210> 3469
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-040-Q1-E1-A8

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caccagatct cttcacatga ccatccaaaa cggcg 275

<210> 3470
<211> 353
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-029-Q1-E1-A10

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tctcgaactc gagctcgccg aagttgagat gcctggactc atggcatgtc gtaccgaatt 180

cggaccttct cagccattca aaggcgctag aatcaccgga tctcttcaca tgatcatcca 240

gaccgccgta ctcatcgaaa ccctaactgc tctcggtgct gaagtcagat ggtgttcctg 300

caacatcttt tccactcaag accactccgc cgcaaccatc gctcgtgact ccg 353

<210> 3471
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-073-Q1-E1-F7

<400> 3471

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aactcgagct cgccgaagtt gagatgcctg gactcatggc ttgtcgtacc gaattcggac 180

cttctcagcc attcaaaggc gctagaatca ccggatctct tcacatgacc atccaaaccg 240

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tcttttccac tcaagaccac gccgccggca gccatcgctc gtgactcc 348

<210> 3472
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-055-Q1-E1-B5

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ctcaagccga tttcggtcgt ctcgaactcg agctcgccga agttgagatg cctggactca 180

tggcttgtcg taccgaattc ggaccttctc agccattcaa aggcgctaga atcagcggat 240

ctcttcacat gaccatccaa accggcgtac tcatcgaaac cctaagtgct ctcggtgctg 300

aagtcacatg gtgttcctgc aacatctttt ccactcaaga ccaggcggcc gcagccatcg 360

ctcgtg 366

<210> 3473
<211> 346
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-008-Q1-E1-F9

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gttgagatgc ctggactcat ggcttgtcgt accgaattcg gaccttctca gccattcaaa 180

ggcgctagaa tcaccggatc tcttcacatg accatccaaa ccgccgtact catcgaaacc 240

ctaactgctc tcggtgctga agtcagatgg tgttcctgca acatcttttc cactcaagaa 300

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<210> 3474
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
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ttggattctg ataaggaaat gtctgcagct gttattgagg gaaatgacgc tgttactggt 180

catatcattt ccactactat tggaggcaaa aacggcgaac caaagcagac cattagttac 240

atggctgagc gggttgttgg aacaggttca ttcgggattg tttttcaggc gaaatgcttg 300

gaaactggag aatcagtagc cattaaaaag gtcttgcaag atcgacgcta taaaaaccgt 360

gagtttcaac taatggcgaa caaanggttt ncccaaatgt cancccctg aaancacngt 420

ttcttcccta naacgagtna nagatganct cttcctcaac cttgtttatg gagt 474

<210> 3475
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<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-B11

<400> 3475

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aagtctcttg ttccctgcca ttaccctaaa cgacactgtc atcaagagca agttcgacaa 180

cttgtatggt tgccgtcact cactcgatga tggtctcaga aagggcactg atgtcatgat 240

agctggaaag gttgctatta tcagtggata tggtgatgtt ggaaagggtt ctgctgctgc 300

catgaatact gctggtgcta cagtcaatgt gactgatatt gatctcatct gtgcccttca 360

cgct 364

<210> 3476

<211> 365
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-029-Q1-E1-F1

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tcgtctcgaa ctcgagctcg ccgaagttga gatgcctgga ctcatggctt gtcgtaccga 180

attcggacct tctcagccat tcaaaggcgc tagaatcacc ggatctcttc acatgaccat 240

ccaaaccgcc gtactcatcg aaaccctaac tgctctcggt gctgaagtca gatggtgttc 300

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<210> 3477
<211> 378
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-083-Q1-E2-G5

<400> 3477

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tggcgttgct cgtcgagaag acctcaagtg gccgtgaata caaggtcaaa gacatgtctc 120

aagccgattt cggtcgtctc gaactcgagc tcgccgaagt tgagatgcct ggactcatgg 180

cttgtcgtac cgaattcgga ccttctcagc cattcaaagg cgctagaatc accggatctc 240

ttcacatgac catccaaacc gccgtactca tcgaaaccct aactgctctc ggtgctgaag 300

tcagatggtg ttcctgcaac atcttttcca ctcaagacca cgccgccgca gccatcgctc 360

gtgactccgc cgctgttt 378

<210> 3478
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G7

<400> 3478

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agatgatctg ctggcaaaag catacaaccg accctcagag gaancagtag caaagccatc 120

ttcaaaatgg ttcatctcaa agaatgcaat tgtctcaggg ctactcggga agaagcaaga 180

anattcantt tcagattctc cacctccaaa ggctcggcga aaaaggatag tgaggaagaa 240

ggtggctgca tctgcctctt aaataaccaa catnacctct aaaatgtcac aattttcana 300

gtccatggaa gaacaacagt gaggttttgt tgttcatttg aggcacacat gacaaaggtt 360

ttgttgccat angaaggaag aagggatcac caaactttgg aggaattgaa aaaaagctcn 420

atag 424

<210> 3479
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G8

<400> 3479

ccaataccgg tcaagnattc ccgggccnta atcaacgatg cnattagtta catanaagga 60

ttacaatatg aanaaaagaa gctcgaagct gagatcagag aacttgaatc tacaccaaag 120

agtagcctta gtttcagcaa agattttgat cgtgatttac ttgttcctgt cacatccaag 180

aagatgaagc agcttgattc tggttcttcc acttctctca tcgaagttct cganttgaag 240

gtaacattca tgggagagag gacaatggtg gtgagtgtaa catgtaataa gaggacagat 300

acaatggtga aactgtgtga agtctttgag tcattgaatc tcaaaatcct cacttccaat 360

ctcacctctt tctctgggca tgatcttcca cactgtcttt attgaggcgg atgaagaaga 420

acaagaggtg ttgcggttaa aaatagaaac aggaatagga gcttataaat gaaactcaa 479

<210> 3480
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G9

<400> 3480

attcccnggt cgacccacgc gtccaacacg cnatccggtc ctctggtggt ttatggaact 60

gaaggatcta agatagttaa ggcgtttaga aaccttcctg gtgttgagct ttgtcatgtg 120

gagaggntta atttgttgaa gcttgctcct ggtggtcacc ttggtcggtt tgtgatctgg 180

accaagtctg cctttgagaa gcttgagtct atctatggtt cgtttgagaa gccatcagag 240

aagaanaagg ggtatgtgct tcctcgtgca aagatggtga atgctgatct tgccaggatt 300

atcaattcag atgagattca gagtgttgtg aatccgatca acaangatgc gaagagggct 360

gttcttaaga agaatccatt gaaagaaatc tcaatgtgat gttgaagttg aatcccttat 420

gccaaagaac cgcgaaagan gatgtcact 449

<210> 3481
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-H11

<400> 3481

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atttccctct gattagatcc cttancccga caaagacacn acaattcttg anggcgacag 120

agctgattga tgtctttggt atctggagcc agggacangg ggttnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnggatgg agatgatgng aactcctcct ccagaacaag agccgacnac 240

gatgctcnta gtcgacanat gancgaatct tctctttgtg ctaccgagga ggaagaagac 300

gacgattcca aattgcaatt gggtcctcag tacactatca ngagaacatc tcgagaagga 360

caangatgat tagagtctga ngaaatggaa ggaacagctt ctcggaagtg ttgatgtcac 420

caacattggg gagactcttg attcgggaag tn 452

<210> 3482
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-H2

<400> 3482

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ttgtgtaaag gtagccctga tgcctttctt gtgtgcaatg gattcaaaga tgctgagtat 120

atatcattgg ctctgcttgg gagaaaactg gcgttgaata ctgtgattgt gcttgagcaa 180

gaagaagagc ttgatctggt tattgagctg agccagaaga tgaatgtgag gcctgtcatt 240

gggttaangg ctaagctgag gactaagcat tcgggtcatt tcggatcaac ttctggtgaa 300

aagggtaaat ttggattgac tactactcag attgttcgtg tggtgaagaa nctgcgtcaa 360

tccggtatgc ntgaattgtc cccaagcttc tgcaatttca aaattggggt cacaaaattc 420

cgttcaactt cgttgccccc cgaaaggtgt tcnc 454

<210> 3483
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-H3

<400> 3483

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tgtantgana agaatcatga tgagatagat tttgagtttc ttggtaacat tagagaaaaa 120

gaatggagag ttcagacaaa catttacggt aatggaagta ctcattcagg aagagaagag 180

agatataatc tctggtttga tcctactgaa gattttcatc aatacagtat cctctggtct 240

gattctcaca tcatattcnt tgtagacaat gttcctatta nagaggtcan acgtactgcg 300

gaaatgggtg gtcactttcc atcaaagccc gatgtctctc tacacaacaa tatgggacgg 360

ttctaaatgg gcaactaacg gtgggaaagt acggggtaaa ctacaaatat gccgccttac 420

attgcgcggt tctcgggatc tagtccctgc aacgggctgc ccccgttgga ccctaaccga 480

gcaatttccc gaaggtgcga atgaa 505

<210> 3484
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-H9

<400> 3484

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acaacgacgt cgttcttcaa caggtcgctt acaattcacg gnagaacant ggtggattcg 120

ggccccaaat cccacaatct caatccttct ctcaatcgta ccacctccat taccaaattc 180

tacacccccg tagaatcgat gggaacttct cttaaaggca aagtcaaaga acctttgtag 240

attattcgag acttccaaac ccgttaaacc tgccttanct gagattcctc agaagcagaa 300

atccggtaaa tccctttttac ccgaatcncg gatatcgcct ttttcgagct taaacanctc 360

ggtcatccgt cctcncggga caanaggaca ngattgtggn gtattttacc aacttgag 418

<210> 3485
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-A10

<400> 3485

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acgtctagag aaagtgtacg gatctcagta ttgtgatatc ctccgtgtgc cttttagaac 120

agagaaagga atcgttcgca aatggatatc aaggtttgag gtctggccgt atctagagac 180

ttttaccgag gatgttgccg ctgaaatctc gaaagagttg caggggaagc ctgacttgat 240

cattggaaac tacagtgatg gtaatcttgt tgcatccttg ttagcacaca aacttggtgt 300

cactcagtgc accatcgctc atgctttgga gaagactaag tacccggatt ctgatatcta 360

ctgggaagaa gctcgacgag aagtatcact tttcttgcca gttcacggct gatcttancg 420

cc 422

<210> 3486
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-089-Q1-E1-A11

<400> 3486

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acactctaag agaagagaag agagaaggaa aaatggacgg tgtatcacca aagtttgtgt 120

tgccggagac attcgacggc gtgaggatgg agatcacagg ccaactaggc atgatctggg 180

agcttgtaaa agcaccagtg attgtccctc ttcttcaatt agctgtttac atctgtttgc 240

ttatgtctgt catgctttta tgtgagaggg tttacatggg aatcgtcatc gtcctcgtca 300

aactcttctg gaaaaaacca gacaaacgtt acaagttcga gcccattcac gatgatgaag 360

agcttggtag ctccaatttc cccgtcgtcc tcgtacaaat ccccaagttc aaa 413

<210> 3487
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-A2

<400> 3487

tttaccggcc caaaattccc gaatcgaccc acgcntccgc tttcttcgaa tctcgacggc 60

tgaaacagat tctaaattta tctccggtga gaaagagata gagagcgttg attccggcga 120

aaagatgtct gaattcgaag atcacgaggg aaacggtacg gttgctgacg cgatttacga 180

cgaagagaat ggtggccgcg acggcgaaat cgaggatcaa ttggactcga aacccaagag 240

agaatcgcgt gaccatgaaa gagagacatc aagaagtaaa gatagagaaa gagagaaggg 300

tcgtgataag gacagagaaa gagactctga agtctctcgc cgaagcaggg atagagatgg 360

agaagaaaag caaggagagg agtagagaca aagacagaga tnatcntgag cgtcntccca 420

anaattatcc ctccacangg atnataccag ggaaccntgg tgaaaagaaa nanaacntgg 480

tgggtaggga tgatgatgaa ttacccgtcg aancc 515

<210> 3488
<211> 533
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-A3

<400> 3488

ttttacgccg ccctntacgc cggccagtac cgcgtcnnaa cattccaggg ccnacgcatt 60

nttcccagga cgaatgagag ctccacacan tggctgcttg cgctactcac tcctctctca 120

tgctagcata cgccgccgca tccactcgtt cccaggacct tacccctact ccatctcttt 180

tctcttttgc cangctccag acccaaccac ttgagcttcc cgcttcttct ccttgggggt 240

tccagggacc ggagatgtgc tgctattgnc agagcttcca accacaagtt tattgtctcc 300

gccgtggccg ctgaggntga cctcgacacg gaggaggacc tgcagcaaac ngccaccgcc 360

gtccttgatc cgcccaagcc taagaaagga aaagccgctt tggttctcaa ngaagagatn 420

gaacaagggc ctaanaaggt ttttgggnaa tcccanaagg ctatggggaa accaaanagg 480

gngttatgat gtcaacactg ctatctcntt gcttaaacaa aactgccanc aca 533

<210> 3489
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-A4

<400> 3489

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ttaacaaagt tgaggaaata cgtggcttaa ggggaagctg ggttggaccc cagatcagtg 120

ggggcacact cgtttcaaat tattcaatgg ttctgctgat atggtgacaa atcaaaaaca 180

gttgaatgca ctcatgcgtg cgcttttaaa gacaatgcaa gaccatgctg atgcttggcc 240

tttcaaagaa ccagtggatt ctcgcgatgt ccctgattac tatgacatca ttaaggatcc 300

cattgatctg aaggtaattg caaagagggt agagtcggaa cagtattacg tgacattgga 360

tatgtttgtt gcggatgcga gacggatgtt taacaattgt agaacttaca actcccccga 420

taccnattaa tacaaatgtt gcnaaccaag tttggaacca ancttccatn gaaagtncaa 480

ancaggtcnc caaatcgggg gccaaaaccc aattagaana 520

<210> 3490
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-089-Q1-E1-A5

<400> 3490

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agaaagcaga tcgacatggc agctcaagga ggtgattcat atgaggaagc gttggctgct 120

ttgtcgtctt tgatcacgaa acgaagtcgt gctgataaga gcaataaagg ggatcgcttt 180

gagttagtct ttgattatct caagctactt gacctggaag aagacatttt aaagatgaat 240

gttattcatg tcgctggtac caaaggcaag ggatccacat gtacctttac agagtctatt 300

attcgaaact atggctttcg aactggactc ttcacttcac ctcacctcat tgatgtccgg 360

gaaagatttc gtttggattg gtgtnggcca taanttaana naaatttttg gggaaaattc 420

ctgggtggtg ctataacang gctcaaggga gaaaactaac gaggagatac caat 474

<210> 3491
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G5

<400> 3491

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caagagaaag tttgtagcng acggtgtgtt ctacnctgaa ttgaatgagg ttcttacaag 120

agagcnagca tnggatggtt acncnggtgt ngaggttang gttactccta tgaggactga 180

gattatcatc agagctacac gtactcagaa tgttctcggt gacaagggga cganaattan 240

ggaattgact tcccttgttc agaananatt caagtttcca nttgacagtg ttgagcttta 300

tgccgagaag gttaacaaca gaggtctctg tgccatcgct cangctgagt ctttacgtta 360

caagcttctt ggtgggtctc gctgttcgta nggcttgcaa tggtgtgttg atgtttgtta 420

tggacagt 428

<210> 3492
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-E5

<400> 3492

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ttctagatca agaacccggt tcaagatcac ctaaaccggg atccgaagct cctgatcaag 120

atccgggttc gacccggtca agaacacaaa atatgatacc gccgatgtgg gcactagcgc 180

caacgccagc ctccacaaac ggaggtagtg ctttttggat gttaccagtc ggaggaggag 240

gaggtccggc taacgttcag gatccatcac agcacatgtg ggcgtttaat ccgggtcatt 300

acccgggtcg aatcgggtcg gttcagctag ggtctatgtt agtgggaggt caacagttag 360

ggttaggtgt tgcagaaaat aacaatttgg ggctattttc cggcggagga gganacggtg 420

gncgggttgg ccccgga 437

<210> 3493
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-E6

<400> 3493

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nnnnnnnnnn nnnnnnnnnn nnnnnnncaa tcggaactct cgattcgctt tcttctccgt 120

tcttctgtgg cggaccggtt ttgtggtttt ttatttgaac attcccgatc ttgccctgag 180

ttccacgatc agtttcttta aaccctangt tttacacaag cattctgttt ctccagatta 240

tcncanactc tttcgttcta ntctttgtag ttttgtaaaa ggtatttcgg tagatttagg 300

gtttgtctgt gtctagtttt cgagatcnag agagatttgt gatgaatact aanagaggaa 360

gatatccacc gggtgttgga acnggtcatg gtgcgcctcc gaagccagat tatcatcaat 420

cgtanc 426

<210> 3494
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-E7

<400> 3494

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ngttcccttа aggnctggcc gtncgcatac tccaactgat angctgcaaa nnanaaaatt 120

tnattcctac antgctanga aagagctatt caaggcagaa tcaaaatatt ggaatgaaat 180

aattgggggc tatgttcgcg ccttaaaatg ggaaaaagat gaaactaaga aatgttttgg 240

acatgaganc aggctttggc ggatttgcag ctgcactaaa tgatcataaa ctcnattgct 300

gggttctaag cgtggttcct gtcagtgggc ctaacacatt gcctgtcant tatgaccgtg 360

gactgttang agtgatgcac gattggtgtg aaccatttga tacataccca cngacatatg 420

acttct 426

<210> 3495
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-F1

<400> 3495

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cgcgtcaagc ggacgcgtgg gctaaagcga tctctgcaaa tctctcgcga ctctctcttt 120

caagatgcaa atcttcgtga aaacactcac tggcaagact atcactctcg aggttgagag 180

ctctgacacc atcgacaatg ttaaggcaaa gattcaggac aaggaaggca ttcctccgga 240

tcagcaaaag attaatattc gccggtaaac agctagaaga tggccgtacc ttggccgatt 300

acaacattca gaaagaatca acccttcatt ggttctcccg tttaaagaag tgggtatgca 360

aatcctttgt caagaatccn gactngnaaa gaacaataac ttgggganggt gaagaactcc 420

tgacactaat tgacaacgtt caaagcaana gattcaagga caaaggaaag gaatcccctc 480

ccggatnaag caagagnact ttatcctttt gccgggttaa 520

<210> 3496
<211> 469

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-F5

<400> 3496

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cnaaaacntc catcatnnac catctcttta cacagagctc taatcaaaat cttcgagaga 180

tggggcanag tatgagctgt ggaagtcgac cggagcacgg aatattcgcc tctgtacagt 240

gcggcgatat catcactatc cgtcgtgtga tggcgacgga gcctagtctg ttgaatcaaa 300

ntactcctta tgatcgtcac tctgttcttc aatgtcgctg ctgctaaatg gtcangatng 360

aagattttgt cattgctttt ggaacgattt acgaaatcca agatttggtt gnatcngtca 420

cnaagcaaga ctccgtttaa tgtttgggct gcnatgtatt ggaaaaatc 469

<210> 3497
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-F6

<400> 3497

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gtctattgtc ttcgcactat tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnngatatg ttnaactacg ggaacancan ngtgggagat 300

canngattgg catgattttt tcaannaggt tcaantgatt gacatacagt atgataagct 360

agacaanctt cnaaagaaac tgcangcttc ncatgangag tcaaaatctg tgaccaaagc 420

tcctgccatg a 431

<210> 3498
<211> 426

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-F7

<400> 3498

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cctcagtatc cccatccctc cgcancgtcg ttttccgctc cacgactccg gcgacttctc 120

accgtcgttc aatgacggtc cgatcnaaga ttcgtgaaat tttcatgccg gngttatcat 180

caaccatgac ggnaggcaaa atcgtgtcan ggntcaaaac agaangcgaa ganactcgcc 240

aagggagaga gtgttgtggt tgttgaatct gataaagccg atatggatgt anaaacgttt 300

tacnatggct atcttgctgc aattgtcgtc ggaaaaggtg aaanagtccg gttggtgctg 360

caattggatt gttanctgag actgaanctg agatcgaaga agctaanagt aaagccgctt 420

cgaaat 426

<210> 3499
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-F9

<400> 3499

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ctctctcttc tcaatttccc caaatgaaat aaattcctcc gaaagtttat agatttcact 120

ctcccccgaa ctatacaaaa ttccctcaaa aggaaaaact aaaaagccga tcttggcttt 180

tttgtttctg agtgcatctc gatacttgga agcattcttt ggtgaggctg attcattctc 240

atctgtgaaa gtctttggct tttgaagcaa tactatggaa ggaattcagc atcctatacc 300

tcgcactgtc gaagaggttt ttagcgactt tcgtggtcgt agagctggtc tcatcaaggc 360

tctctctact gatgtacaga agttttacca tcagtgtgac cctgagaang aaaacttgtg 420

tcttaaggac ttccaaatga ngacatggga aggttaa 457

<210> 3500
<211> 505

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G1

<400> 3500

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tcagattcct taaccaacaa tattacaaat aagctcctat cttctttctt tcttttagag 120

atcttgnaat ctcctcntag ttaatcttct antgtaaaac taanatcaan agtctaaatg 180

gagattaacg gggcacacaa gagcancgga ggaggagtgg acgctatgtt atgcggcgga 240

gacatcanga cacagaacat ggtgatnaac gcggaggatt ctctcaactg gggagctgca 300

tcggagcaaa tgaaacggta nccatttggg tgnaattgaa aanaatggnt tgccgaantt 360

aangaaacca atttgttaat ccctgggggg gtgagactcc tgaaccaatt gggacaaagt 420

tggctgccaa ttctcaaact aattgggtaa acaatgttga aaaggtggag ctatccggag 480

aacagctaaa agcccngtgg tgaaa 505

<210> 3501
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G11

<400> 3501

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caatggttgg aatcatgtta cggatcgatc gtcgaaccca attgactaga tcccctcctt 120

gctccagcgg ttgaactggg ggctttcctg ttattagctc cagaagcaca actccaaagc 180

tatagatatc acatttctct gtcaccttca tcgtgtaagc atattctgaa acacagcaaa 240

acatcaatta gatatgttag ataagcgatt gtgggaagaa agaaaactgt gatgttttac 300

tcacctggag cgatgtatcc gtaagaccca gcaacaagct gacatggact ttgagtaaga 360

gaagatnaat caacttagcc aggccaaaat ctccaacatg agccttgaaa cgttcanca 419

<210> 3502
<211> 426

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G12

<400> 3502

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ctctcaccga tcatcagttt cgtgcgccgt atcgaattag gtgcgccgcc gcttcacctg 120

ggaaaaaacg gtataacatc gctctgcttc ccggagacgg tatcggtcca gaagttatct 180

ctgttgctaa gaatgtgctt cagaaagctg gatctctcga aggactggag tttgatttca 240

aggagatgcc tgtcggagga gcagccttgg atttggttgg agttccattg ccggaggaaa 300

ctttcacggc tgcaaaacta tctgatgcca ttcttcttgg agctattgga gggtacaaat 360

gggacaaaga atgagaaaca tctgagacct gagatgggct ctgttttacc ttanaagaaa 420

tttcaa 426

<210> 3503
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G2

<400> 3503

cggccaagnc acagatctcc gtggccatct ctctctnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnncgtata aatcctcccc attgttgagt taattagttc ttgtaaaccc atgacgtttt 180

ccgtcaaagc tgaaatggaa gttctcatgg tctcagatag ccactgttgc ttctgtcatt 240

gttctcgttt ccttggttca tctgtttctt ggtcctgtag tgccttcttt tgattctatt 300

actgtaagac aagctcagaa tctttgtgga ccaagtaatg aatcaatctc acaagtgact 360

aagaattcaa gtcaatccct tgttgttgtt gcctttggat tgccgctttc ctggctgact 420

cacacggtgc aattagttta 440

<210> 3504
<211> 487

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-G3

<400> 3504

accggnccaa aaattcccgg aatcnaccca cgcgtccgca cgctctcaat tttgtgggat 60

tgtttcttta aaaggggttc ttanggttta gtgaagctat agatttcaat ttcatacata 120

gttaacgtat agaaggaatc ttgggttgat caatggaagg ttgtccaaga aacagagaaa 180

tcggtccaaa acttcttgat ttgattccac aangaaggaa atggtaccaa gaagacaaga 240

acaacacaga tcacgagaag aaacttgagc taangcttgg accacccggt ggtgatgaag 300

aagatcattc aagcaatcaa gaaagaanga acacnagaga taagaaacat caaagaanga 360

aacagaagac aaatctttcc actgttttaa tggcaatcac ttctctcctt ccaacaaaaa 420

ccacttctgt tcctcacatc tcacaagaaa aagaactgct cctgggtcca gtggtgggtt 480

ggcctcc 487

<210> 3505
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-E3

<400> 3505

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tcttcacttt ctctctagaa aaaattggna agctgactcg ataanagact ctctttttct 120

tcttcgtcct gcanatgggc gatcgaggat caagagaaca caatccgtga aatcaaacct 180

aagaacaaga agaatcatgg gagctggtgg tccggaggaa gaggagaacc ggtggccgcc 240

atggttgaaa cctttgctta aagagcaatt ctttgttcat tgcaagtttc atgganactc 300

tcataagant gaatgcanta ngtnntgctt anactgcacc aatggcccac tttgcnctct 360

ttgtcttgct catcacaagg atnatccgca ccattcanat aagggagatt cttcttatca 420

tgatgttata acgggtgaat ggagatacaa nagtaacctt ganatnangg tggggattca 480

aacctaaggt gttaantaat g 501

<210> 3506
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-088-Q1-E1-B5

<400> 3506

tttttcaaat tgtcgtctaa agtctctaaa accaccatcg aagtcttgac agagagaatt 60

cgaatcggac agagaatttc ttccgtagtt tttcttgtaa gcgaaaaaga agtttagtta 120

gctcgtgtga gagaagggtg taatgagctg ttttggttgg tgtgggagtg aggattttcg 180

caacgctact gacactggcc caaggccagc gcataaccca gcaggttaca atggaggcca 240

ctaccaaaga gctgatccac ccatgaacca gcctgttatt cccatgcagc ctatttctgt 300

accagccatt ccagtggatg agctgagaga tataactgat aactatggtt caaagacctt 360

gatcggcgaa gggttcctaa ggaagaatgt tttaaggtgt tcttaaaagc cgtggtgcag 420

ctgccatc 428

<210> 3507
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-B8

<400> 3507

acgcgtccgc aacaactgtg ttatctctat gaacagttcc tttgatgaag aacacaaagt 60

gaaagttgct gtctttataa ccaggatttg gtaattccca ttgtttcatg ggcaattctt 120

gccgtggatc tttcaaggac aaactcgacg aaggcgataa caataagcct gaagattact 180

ctaaaacctc taccaccaac ttgtcttcta attccgacca ttcaccgaac gctgcagaca 240

tcattgctca agaattctcn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna gatccagctc 300

ttgttattcc ctttaagaga accaatcatg agggcgttaa cccagacaat caaagcttac 360

taagttcctt ggtcataaag acaccaaaca attcgtggat aatccnatac ccctaanccg 420

caagcctang gtcaaagggt caatttggaa ccaactt 457

<210> 3508
<211> 448
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-B9

<400> 3508

gccacanaca ttcccaaggt cnacccacgc gtccnatcgc gctctctctc tctctcttca 60

ttgattgagt catcatcttc ttggacaaga agtggtccga accaaaacca agccagagaa 120

tgaatctctc aggggatcga acaactctaa agcgtcactc gtcgctttca acacttgtgg 180

ctcatttctt tggcatctta gctgttgttc tgatgctaat ttggcttctc cactaccgtg 240

aaggcatcga gtatggctcc gacaaccccc ttaaggtttt aaatgtgcac ccatttctca 300

tgtactgtgg atttctcttc ctcgtgggcc aagcaatgat gacttacaaa acggcgtacg 360

cgtcgcacca agttcaagaa aatggttcac ggtgggcttc acttaatang cttaattcta 420

ngtaatgtcc ggatccgggc ccgccntt 448

<210> 3509
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-C12

<400> 3509

tcagctcccc tagttaaact tggggatgca tcaatggcat ccccccttcan agctaaacat 60

gcgtcagttg ccccantgac anacataatc cggcagggtc gtagcacact tgtgacgact 120

cttcagatgt tcaaaattct cggtctgaac tgtctcgcca cagcatatgt cctaagtgtt 180

atgtacttag acggtgtaaa gcttggtgat gtccaggcta caatcancgg agtgttaaca 240

gntgcgtttt tcctcttcat ttctcatgcc cgaccgcttc aaaccctctc tgcagaacgg 300

ccccacccga gtgtcttctc cgtgtacctc ttcctctctc tgataggaca gtttgctgtt 360

cacttgacct tcttggtcta ctctgtgaag gaagctgaga aacacatgcc cgacga 416

<210> 3510

<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-C3

<400> 3510

aactgttacg cagcctctaa gcggnccann aattcccgnn tcgacccacg cntccgtctc 60

tcccttcttc tcgactctct gactcaatca acctctataa atgtaaaacg agtcagaagg 120

aacacagacg cacatcaaga anttaaatca ctaaaatgga ttaccccatg aagaaggtaa 180

aaatcttttt caactacctc atggcgcatc gcttcaanct ctgcttctta ccattaangg 240

ntgctanagc cgtggangcg tcncgtcgtt ccacacaaga tctccaaaac ttttacctct 300

acttacaang caaccanaca tctntaacca tgttcttcnt ttacctcgct ctcgggtcga 360

ctccttacct catgacccgg gccaaaaccg tttaaccccg ttgactttag ctgctaactc 420

ccaacgtcgc atctcaaagc cagcanccaa gangatnatg caccacgtaa aggcttgtnc 480

g 481

<210> 3511
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-C9

<400> 3511

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caggaaacat gcctcctcag aagattgaaa ctggtcatag cgacactatt catgatgtgg 120

tcatggatta ctatggaaag cgagtagcaa ctgcctcgtc tgactgcacg atcaagataa 180

ccggagtaag caacagcggt ggatctcagc atctagctac cttaaccggt catcgaggtc 240

ctgtctggca agtcgcttgg gcgcacccaa agtttggttc acttctcgct tcatgttcct 300

atgatgggca aattatatta tgggaaagaa ggtaaccaaa accaatggac acaagctcat 360

gtcttcacaa gaccacaaag tatctgtcaa ctctatcgcn tgggctcctc atgaacttgg 420

actcccctta accttgcgga gcatcctgat ggga 454

<210> 3512
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-088-Q1-E1-D12

<400> 3512

caaataaaca ttaaacccaa atgatatatt ttggtagatc aatcgacaat cattatacaa 60

caatgatgac aaaaacattg gagattgatt tgagatcagc agaagggctt aagctaaacc 120

ggagacccat caagaaaaag actttcgccg tcgtaaaaat cgacgagaaa tgtcgaaaat 180

ctaatcttga cgaatcgaga agaagcaatc ctacatggaa ctataaatca gagatgccca 240

tcaatggtaa tgaacagttt atcttcattg aggtatttta tcgaacaggt tctgggcatg 300

ataaaaaaat cggagaagct aaaatcccaa cgaatgattt catgggaagg tattcacctg 360

aaggtcactt aaacttcttg agctatagat tgagagatga gtttggtgat aagtgtggga 420

<210> 3513
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-D2

<400> 3513

taccggncca aagattcccg aatcgaccca cgcctccgnn ggacgcgtgg gtgttggtat 60

accaattctt acgtcaacgt caatgaagaa acgactccat atttacgaat aaaaaactgt 120

agtagatctg tactctccct ttttctttgt agagaagaag agaactgtga aagaagatga 180

agattgagga ggatctaggt ttcatcaaca tactcaaacg agcaacaaag cttctatgtg 240

gtaacatcaa tcttgttctc ttcctcttcc tttgctctct ccccctcttt tgtttcttga 300

tcttcttcga gctttcactc caaaccactg tctcactcgc ttctcaatan ctcgttccga 360

caactcacta attgggatta cnactacgtt cctcaaagat gcntccgtct tggagaaatc 420

cggattccaa tggcntatcc agacatttct acnctacntg gttcccgtta nggggctcat 480

agac 484

<210> 3514
<211> 500
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-D3

<400> 3514

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ancgaccagc catggacatt ggnggtccaa ccaatatccg ccacgtggct cacgttacct 120

tcgatcgctt cgatggcttc ctcggccttc cctctgantt cgagcctgat gtccccanaa 180

aagctcccaa tgcaagtgca acggtgtttg gggtatcgac agagtcaatg cacttatcat 240

acgactcgag agggaactgt gttcctgtga tactgttgct attgcaanag ccngctttaa 300

gatcaaagag gcttgcaagc aanaangatt attcagaatc actgggagaa aaaaaccnan 360

ggaanaattt tttaagggaa cagcttaata anagggatna tacctgatgg ggattgatgt 420

ccantgttta accgggtcct aataaaggct tggttcaaag aanctgcccn agaagggtac 480

tggattctcc tgccatccgn 500

<210> 3515
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-D5

<400> 3515

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tgggtanagg aaaagtctcg cctttttta tatttatcca atcgcnccng ttcattgatt 120

ccccantagg attgtagttt ttggttattg ggaaaattga gtaaaggagg agatgggttg 180

tttctcgtgt tttgattcna gtgatgacga gaagctgaat ccagttgatg aatctaatca 240

tggtcaagaa gaancaatca caaccgacag tatccaataa catatcngga ctcncttcan 300

gtgggganaa gcttagctca nagaccaatg gngggattaa aaagggagct actgcttcca 360

ngggatggac ntggacaaat tgcngctcat acatttgctt tccgcaagct tgctgcngca 420

actatga 427

<210> 3516
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-D7

<400> 3516

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agtagccacg acggtggaag caacagagaa agcgtaatcn atgatcatgg ccgccgtaaa 120

agcacttgcg gctactgtaa atccccagct cggtccanta tctctcacgg tttatnagca 180

cagactctta ccgtttatga ctaccaagct cttattgacc gatgctggag aagatctggt 240

acttatcttt acaaacatga gatggataaa acgtgttgcc ctccttatac gatacgtttg 300

aaagcaagtg attttgttcc tactaaagag cacnancgag tttctagaaa actagaaagg 360

ttcttggatg gcaaactaaa tgtgcagccc agggaacaaa nanggtgctt cttctccggg 420

ngatgt 426

<210> 3517
<211> 479
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-D9

<400> 3517

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tttcttcttc tttcaaaatc tcaagcaaaa gaaaaaatgg agctattcac aaaaggtaac 120

aacgttaagt tacgtagcca cctagataag tttttagtcg ccgacgatga ccaagaaacc 180

atccgtcaaa gccgtaaagg agatgcacgg cgtgccgttt ggacggtgga gcccgtcgtc 240

gataaaccta atctgataag gttaaagagc agccacggca cgtacttaac ggcgagcaac 300

aaaccgttat tgttaggtat gaccggtgag aaagtgactc aaacggcgtc gtttaacaag 360

ctgatggatt ggcaaacgca gtgggaaccg gagcgagatg ggtttcaggt gaaagctaaa 420

atccttgggt gcggtaagtt ggatgaaggc taacggtggn aacccgccgt tggaaaaac 479

<210> 3518
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-E10

<400> 3518

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agggcgtggt tcaggaagcc ttgagaatca acatggagat gaagcacagc taccgctgca 180

tctattatta tccggcagca acccaaagag catcgacgat gcaaaacgtt tagctgagaa 240

tcttatggat acaatcagtg tagaatttgg ggcttcaagg gtttcctcaa gcaaggtgta 300

tggtgcagta ccaccaccac agcaactgat ttctggagct ccgggttctg accaggagaa 360

ccaaaatttg atttcaacgt atggtttgat gacatcnata nccatcacaa gcaacaacat 420

a 421

<210> 3519
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-E2

<400> 3519

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cactatctcc attaccaccg cattacccga taaacccggg tcgggtcaaa taaactcaaa 120

ctccgtcctc gttgctcttc ttgantcaca ctacacagaa ctagcagagc tcgtcgaaaa 180

agctcttctt ctccaaacct tagaagaagc tgttggtcaa cacaacatca caatctttgc 240

tcctcgtaac gatgccttag aaaaaaatcn tgatcctgaa ttcaaatctt tcttactcca 300

accgaaaaaa ctcaaatcat tacaatcttt attaatgttc acattcttcc aaaaagaatc 360

acttctccac aattctcctc cgcggtcgtt aagcaaccgt tatctctcna acgacnactc 420

catttcacca aangga 436

<210> 3520
<211> 490
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-088-Q1-E1-B3

<400> 3520

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cagagaagcc tgccactcga tattgacctt tctaaccgac atttttgacc tcgagaagtc 120

tgtgaatgaa gaacagttcg tacggatcag ggacaatatc attattcctc ggggagctac 180

aatcaccaga atattgatng cctcattagc tggggcactt cccagttctc ggctagatac 240

ggtaacatat tcgctgctag ctctgacaag aacatacagg ttacaagcag tgagttgggc 300

taaggaaagt gtaagcctga tacctcgaac agccttgaca ganaccgaat ctaccaagtt 360

cttacaagca ttgtccgata ttgcttatgg agcaaatgtg aattctctga taggacangt 420

tgaggagctc tcanatgttt gtccgacgta accgtactgt tcaagaacct tgttcaagna 480

agctttgaaa 490

<210> 3521
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-086-Q1-E1-H8

<400> 3521

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gcgtcccagc ttctggtgat cctcccgctc ttccacctgg agagcttgtt tggtccatga 120

gacaagctag aaccttcaga tggaacttaa cagcaaatgc agctagacca aaccctcaag 180

gatctttcca ctatggaatg atcagtccaa caaagacatt tgtcttctca aattcagctc 240

ctttgattaa tgggaagcaa agatatgcag tcaatggagt ctcttatgtg aaatcagaga 300

cgcctcttaa actcgctgat cactttggca tctcaggagt tttcaagcac caatgccatt 360

caaagcgtcc catcaaactc tccgccaaac agttgcaaca tcagttgttc aaacatctca 420

cca 423

<210> 3522
<211> 220
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-A1

<400> 3522

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tgtcttgttg ttgtgataaa accattttta aaaggttata tatattccaa tggtatgcga 120

tgtagtagta acatataaac ttttgtcatg gtttggtttc agacattact ttatagagtg 180

aaaatgtatt gtatgttttt attaaaaaaa aaaaaaaagg 220

<210> 3523
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-A12

<400> 3523

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gatctcgcta tgttcgcact acacttccca agtatgagat tggtgagaat tcgataccga 120

angacgctgc gtatcagatc ataaaagatg agctgatgct tgatggtaac ccaaggctta 180

acctagcttc ttttgtgact acatggatgg aaccagagtg tgacaaactc atcatggant 240

ctatcaatan gaactacgtt gatatggatg agtaccctgt cacaactgag ctccagaacc 300

gatgtgtana cattatatct cgactgttca ntgcgccact cgatgnatct gatacngcng 360

tnggagtang ggacagttgg ntccntcana agncatcagg ttagccggnt ttggcttcaa 420

g 421

<210> 3524
<211> 464
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-A6

<400> 3524

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gttatagggc cgtgcttctt gatgctcaga aacaaactga gccatttgta tattattgtg 120

gtgtttttct tgtccccaag actcgtgctc atgagtggct gttctgttca gaagaaggac 180

agtggcaggt tgtcgagagt tctcaggccg ctcgtctcat aatggttttt ctcgacagta 240

gccatagtgg agccaccatg gaggatatcc agaatgattt atctccaatg gtgacacaac 300

tagctcccag aaatgatgat gaagctcgca ttccgtatat gatggcaagt gatgggataa 360

aaaagcgtga tactgtccac gaggttacat ctcctatgac tgggaaagtg gttgttgaag 420

atgtggttta tgaaagcgct cctagtaatt tagaagactt gtct 464

<210> 3525
<211> 519
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-A9

<400> 3525

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tctccccctct ctctctactt ctagtttttt tttttgtgtg atgatgaaca aagacatgtt 120

acttcaccag catcagcaac cacaacaaga cgagaatatg tcgaatctaa catcagcttc 180

cggggatcaa gcaagtgtct cttcaggaaa tataactgaa gcaagtggtt ctaattactt 240

ccctnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ttagttgttc cagattcgca 300

gactcaaaag aagaggagaa accaaccagg gaatccagac ccagaatcag aagtgatagc 360

tctatcacca aaaacactaa tggcaacaaa caagattcgt gtgtgaaatc tgcaacaaag 420

gttttcaaaa gaagaccaga atctacagct tcatangaaa gaaggtcaca atctgccatg 480

ggaagctgaa acaaagattc aacaaagaan tggttaggg 519

<210> 3526
<211> 506
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-B11

<400> 3526

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tttagaaaat gggatcttct tctgggcaaa gtggatacga tctgtctttt aagatcttgt 120

tgattggtga ttctggtgtt ggtaaaagca gtttgcttgt cagcttcatt tctagctccg 180

ttgaagatct tgctcctact attggtgttg atttcaagat caaacaattg acagtaggag 240

gcaaaaggct aaaactcaca atctgggaca cagctggaca ggaacggttt agaacactga 300

caagctctta ctacagaggc gcccaaggaa tcattctccg tttatgatgt gacgagaagg 360

gagacattta caaacttant agatgtgtgg ggtaaggaga ttgagcttta ctccacaaac 420

caaagaatgt gttaaggatg ctcntttggg aacaaagtcc gataagagaa tctgaaanaa 480

gganttagca agagaaagaa agggat 506

<210> 3527
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-B3

<400> 3527

tgtacgcctc aagaattcca nggncgaccc acncgtccgc ccacgcgtcc gctatttttt 60

attcagacga acctagacac cattccaatg gatgagcagg tccaagaacc tctttctgat 120

caggtgttta tcaacttccg aggagatgag ctgcgcgaaa tctttgtcaa ccatctagag 180

ctgcaattaa gaaacgcagg gatcaacgtc ttcatagaca ctaaagagca gaaagggaga 240

agactacaat atctcttcac aaggatcaag aagtcaaaaa tcgcgcttgc tatcttctcc 300

aagaggtact gtgagtcaaa gtggtgtttg gatgagcttg tgacgatgaa tgaacagatg 360

aaggaaaaga aactcgtggt gattccaatc ttctataacg taagatcgga cgatgtaaaa 420

agagcagcca atccccgatg gagaangcaa tcttgatgga gag 463

<210> 3528

<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-B4

<400> 3528

ccgntcggta cgcctcaaga attccanggn cgacccacnc gtccncagaa gctggggagc 60

gaagttgctg gacgaaaaaa gactttgttt aggagtcaaa gtgctcaaag tcgttcattt 120

agagtccctc agagtgaaaa agaggatgag tcacttgagg gagttaatat aaaccgatta 180

aagaagagcg ttgcttcatt tcaagaagat aagtatccac ctggaaagaa gttttgctca 240

gatgcatctc ctcgtggaac tagcatgaga aagttttccc cacctttttgt accaaatgcc 300

tggagacgac tatctatgcc tgtggagcta aagaaagctc ggttggattt ctctgaggaa 360

aaagatgatg aagaaacagg gaaatgggaa tctgaaatga ctcatgaacg tgagctgcga 420

gatgatgatt atgtttctgg tgatgatggg gaaaataatg aggtctta 468

<210> 3529
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-B7

<400> 3529

anttcccggg ccgacccacg cgtcnngagg gaagaagatc tcgttccctc taagccatga 60

atcgtcgtaa tcgtggctct tcttcttctt cttctagggt ttcgaatact tatgggaacc 120

gccagttctc tgataacccg aggactggat ccggcggcgg agttaatgaa tcctttcaga 180

gaagatccga tgcaccgcac aaacgaaaca atgaaaaaga cgaatcaaaa cataaagacg 240

aagatcctgc tgacgtttca ttgattgtag gaacttgttc ttctangtgc ccagttctta 300

ggtcaattag gtactttccc ttcancaatt catgatcctt ccgtgcatcg gcagttcaga 360

acaaagaatt atcttttgct aggggtttag agagggaaag agtcacaaga gaacgcctgc 420

gtgatcttgc agtgtttgag a 441

<210> 3530

<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-B8

<400> 3530

tcccgggccc gacccacgcg tcaaagctgc ttcacattgc ctcacaagat cagccacaca 60

tcgtcccaat ataagacaaa tactgaggct actaagagat gaaaacgaag ccgggaaatg 120

gattatggaa gangaaggaa atgaagattg cttcgatgac gaggtttacc cgaattccag 180

cacagaatta cacttaaacc ttgcgatgct tgaggtggaa gacgatgaaa ctgcatcaat 240

cagcagcatg gagagaagta acancagcct tttttcttct acttgttcat ctagggagct 300

tcaaacataa ggaattatgc ttttagctaa tagagaggtt angtacttan gttanaggtt 360

tgtttcttag tgtatggagt ttacttgatn actttatgtn ggacctgagc tccctgctgt 420

tatctggacc angaaaattc att 443

<210> 3531
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-B9

<400> 3531

tcgtgtctcc ctggntccta caagtccgnn natcccnggt cgacccacgc gnccgnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnctttctcc actccaagcc tgagcgagac cgaagagtct ttcaacagnt 180

acgaggaaaa ttacccgnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn gttaanggaa gagtctttcc cccgagaaca atgangacaa 420

cagagaaaaa angtcctaca actcctancg ncntacgggg acagaattng ancgttgaaa 480

ccancggtnc aagaggttca agcccaacct tggngagaac 520

<210> 3532
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-C10

<400> 3532

acgcgtccga anaaaaaaaa aagatccaaa ttacaaccat gccttcggag ttaacaccag 60

aagaacgatc ggaactaaaa aactcaatcg ccgagttcca cacataccaa ctcgatccag 120

gaagctgttc atcactccac gcgcaacgaa tccangcgcc tccggaactc gtctggtcaa 180

tcgtacgacg attcgacaaa ccacaaacat acaaacactt catcaaatcc tgctccgtcg 240

aacaaaactt cgagatgcgc gtcggatgca cgcgcgacgt gatcgtcatc agtggattac 300

cggcgaacac atcaacggaa agactcgata tactcgacga cgaacggaga gttaccggga 360

ttcagtatca tccggagggc gaaacatagg ctgacgantt acaaatcccg tttacgacgg 420

tgcatccggt tcgagaaaag agaatcgggt tctgggacgg gtggnttttg 470

<210> 3533
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-C3

<400> 3533

gtacgcctca agaattccan ggncgaccca cncgtccgct gcgttnaact atgctgcaac 60

tgantacaan tttgatgagc atgctcctcc aatggctaag aaagtggtga ntcaagcaca 120

tgtattgatc tacaaggcga cagagaaagc tcaaagcttt gtgaaagagg ctcgtaccgg 180

tggtcccaaa gctgcgttta actatgctgc aactgagtac aagtttttcg ttgtgaccaa 240

ctcggttaaa gtctgggcna aacttaacca gtataaacca atccatgcaa tgggtgacaa 300

agctttgcct gtggctgcac acttttccaa gtcggtacaa cnatttggtg actgatatna 360

ctaatatggg ttactctttg gttggntatc ttccgttggt tcctgttgat gacattgtta 420

aggcttatga aaacganana tgcaaggaga aagaaaagga gg 462

<210> 3534
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-087-Q1-E1-C4

<400> 3534

nggaaactcc accgcacggt agcctcacaa attccanggg ccgacccacc cgtcnntctc 60

tctgctcttc ctctgtctac attaatgtaa ttttgatcat cggattgggt gaaagaaaca 120

tcaaactcct aaaagagaag cctttaaagt tttttttaa tcaaaaacaa aaggaagaaa 180

attttccttt ttgttttaga tggcatgaat catcatcatc gctttgcttt cttgattctc 240

tatttcgttt gatgggattt gtttttctgg gaatttattc attcacctgc tgccatggct 300

aaattatctt tcaaggattc tcttaaagct cttgaagccg atattcaaca cgctaataca 360

ctagctttag attatcctcg ggagaaggat ggagcgcgcg ttcagatgag attatcatac 420

agcccgactg ctcaattttt tctttttcnt gtacaatgga ctgattgtaa gcttgc 476

<210> 3535
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H7

<400> 3535

acgcgtccnc ccacgcgtcc gcccacgcgt ccgctttctt caaataaatt caatgggtcg 60

cttccgtctc atatctgcca taactctact caaattaggg ttgtgaaact tgcggtgaac 120

tacttcgccg gaaacttcac ttccgggttt gggaaatgtg tcttgcttga gcatctctgt 180

cttggtatga acgatcttac tggtaacatc cctgaggatt tgtttcatct caaaagattg 240

aatcttttag ggattcaaga gaatcgtctc tctggttcgt tgagtcgtga gattaggaat 300

ctctcaagtc ttgttcgtct tgatgtttct tggaatttgt tttccggtga aatccctgat 360

gtgttcgacg aattgcctca gttaaagttt ttcctaaggc agnccnatgg gnttcnattg 420

gggggaatnc caaaatccgt 440

<210> 3536
<211> 514
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-F11

<400> 3536

ctgtttccct gtccctaccg ctccggaaat cccgangtcg acccacgcgt ccgagcaact 60

ttggcccttg gtgatctttt ccagaatgaa gctcttgcta gaagcaccga tgcagcttct 120

gcttgccgtg ctttagtcaa tgtccttgaa gaacaaccca cagaagaaat gaaagtagtt 180

gctatatgtg ctctgcaaaa tctcgtcatg tatagccgat ctaacaaaag agcagttgcc 240

gaggcaggtg gtgtgcaggt cgtcttggat ctgatcagtt ccagtgatcc tgaaacgtct 300

gttcaggctg caatgttcgt aaaactactc ttctctaatc acaccgttca agagtacgca 360

tctagcgaaa ccgtcaagag caataactgg ctgccattga gaaagactta tgggccactg 420

gaaaccgtga atgatgaata cctaaaaanc cttaaactcc tttgttnaac aacttcccgc 480

gtctaagact acaaangcct ggaacactaa gttt 514

<210> 3537
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-F3

<400> 3537

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actcgtgtag atgagaatcg gcggcgtcga ggttacgaaa tttgcgtcgg agatgatgtc 120

gtcgtcgtct tcgtcggcgg tggagatgtt gaatctcaaa gaagcttcga attggtggtc 180

agacgtaaac gaatctccga tttggcagga tcgtatcttc catgttctcg ctgttctcta 240

cggaatcgtt tccctcgttg ctgtgattca acttgtgaga atacaattga gagttcctga 300

atatggttgg acgacgcaaa aggtctttca ctttctcaat ttcgttgtta atggagttcg 360

tgctgtggtg tttgtcttca ggcgaaatgt tcagtttatg caaccagaga ttctgcaaca 420

tancctngcc tnganaatcc aaatncttgc tttcctcaac aacctn 466

<210> 3538
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-F6

<400> 3538

aacttctccg cgntcaggta anggtcanag aattcccggg ccgacccacg cgtcngccca 60

cgcgtccgga agagagaaga agaagaagaa tgaagctaac acataannnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnatgtggt gtacttcgga gctcactctc atgtcggaga gataacagaa gatgccatgg 240

atcgagtcaa agaaactcac tacgactttc ttggttcctt cactggaagc cgtgagagag 300

ccacagacgc cattttctac tcatacacaa agcacatcaa cggattcgct gctcatctag 360

accacgacct tgcttatgaa atctccaaac accctgaagt tgtgtctgtc ttcccaaaca 420

aagctttaaa gcttcacacg actcgatcat gggacttttt gggtttggga cataactctt 480

a 481

<210> 3539
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-F7

<400> 3539

aacttttccg ccgcncggta acggtcanag aattcccggg ncgacccacg cgtccgcttc 60

aattcgtaaa tgtcttggcc tttgtcgttt tcaaacttca acatcagcat cacgtgattg 120

gctaatacaa ataaaatttt ctctttattt tattattttg ccacaagccg tgaaaagatg 180

gagaaaatga atgtccgttt tatgattgtg ttgatggtaa tgtctctggt tctgggtttt 240

tcgtcggcag ttgatttcag atggaggaaa actgcaggat tctcagatag attcaccaga 300

gctgtttctt cagtcgtgtt cccagttcat ggcaacgttt atcctcttgg gtactataat 360

gtaaccatca acataggaca accaccaaga ccttattatc ttgatcttga tactggtaat 420

gatctcactt ggcccaatgt gangcnccct ggggtccgtg ncttgaaggc cc 472

<210> 3540
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-G3

<400> 3540

ggtcanagaa ttaacgggtc gacccacgcg tccnatttta tcaatggcga ctcctaacga 60

agtatctgca ctttggttca tcgagaaaca tctactcgac gaggcttctc ctgtggctac 120

agatccatgg atgaagcacg aatcatcatc agcaacagaa tctagctctg actcttgttc 180

tatcatcttc ggatcatcgt cctcttcttt cgccccaatt gatttctctg aatccgtatg 240

caaacctgaa atcatcgatc tcgatactcc cagatctatg gaatttctat cgattccatt 300

tgaatttgac tcagaagttt ctgtttctga tttcgatttt aaaccttcta atcaaaatca 360

aaatcagttt gaaccggagc ttaaatctca aattcgtaaa acgccaatgg aagaattcgc 420

cttccaagct naaacaagag tgggntcaaa ttcgcaagct tgaaaacnac caaa 474

<210> 3541
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-G5

<400> 3541

aattcccggg ncgacccacg cgtccgcttt tgggtcccta aaaaagctcc ttcgtttatc 60

ttgttttcta agttatcttt ttgtatgagt ttcaaagctt atcattatct cactcttctt 120

ccatagctat gactacttta acgaagattc aagtgtaccc acaagtcttg gagcaccgtc 180

tcttcttcag agatccgata cgggtcgggt caagattgac ttgtagagaa cgtagtaata 240

gggtttatgt gcatcggtgt gagaaaaaag ttgaaagaaa gagaaaagtt gagaaattta 300

agggaaatgg gtcgtgggat tctttgaaat ctgggttttt agggtttagt aaattagggt 360

tcttgtctaa agatgagtat aatcaagaaa gttgaaaacn tggagaaggg tttcccctcc 420

ggntgccggt caa 433

<210> 3542
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-086-Q1-E1-G6

<400> 3542

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tcaaagctcc tcgagaaact ccgtgtattt ctcgtcacgt gtttcctctt cttcttacgc 180

tctcttcctt caatcgtctc tttcgcaaac cctaattcgt cagtcgtctc tttcgccaac 240

ccttattcat cgaagacgaa gaagaagaat aagatactgg tgatcaacca ttgcgaagaa 300

tcgggaatcg gtcgagcaat ttgggcagtt attgtcagcg atgaatgaaa ttccggtgag 360

ttctaagaaa gtaccaagtg gttcgatcgt tggcggagag actaatcaac gataatcaag 420

gagaaaactc agtc 434

<210> 3543
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H10

<400> 3543

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tggtggtgat tgtgcttcac ttaccaataa aaacaatcag tctcatcagc cagtcctttt 120

tccctctcca atttggggtg tacgaggatg agtttgtgtt tggcttactt gttgcttata 180

tgtgcctagt aatattcggt ccccggtggt tagccaattt aattagacca tccatcagac 240

ccatagttca caagtgggtt atcactatca gttctttgct caagttgagt gatttcttgc 300

ttggagagcc ccgaaaacac cgtgcaaatc ataatatgag acttcggtgt ctagtatttg 360

gcataactga angctctaag gtcaatttgc atggatctca aagcgatacc acctgtgaaa 420

aaggatacaa aactaacaaa agagaataaa aagggttatg gt 462

<210> 3544
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H12

<400> 3544

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gcttcatcgt tcaagggagg aagtgaaacc tttctccana atgtatttga aagtatactg 120

aaaacgtatt tgaggaanaa cccgatggcg aagacgatat gggaactagt taactcggtg 180

gacaacgaaa agatctctta cgaccacttc tttttcanga catttaaggt cgatggttat 240

ggaattgatt ccctggcgag ttttttcatg gattatggat ataaagttgg aggcagactt 300

gattttccan gagaagaaag tanaagttct ctgggctttc tcctccggga tgttcacttc 360

cccggataat ggttaccngt attggcaatg gcnctttttgc canngacttt gttaganncn 420

gaggcttcnt gtggagggaa 440

<210> 3545
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H3

<400> 3545

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accacacaca gccacaatct tttgaatttt cctcctcatc atcgtctctc tccgatccat 120

ggcctttaac aatttcaccc gcctcgatgc tcactccgcc gccgagaaag ccgtctctgt 180

aatcggatta ggttacgatc tctgctccga tgttcgtttc tccgcttgta aaaccacacc 240

cgacggttcc aggttagtcg aaatcgaccc gactcggaac cgtgacttaa tcttccccgg 300

tggtatcgtc gttaacaacg tctcgagctc gattaagtgc gataaaggcg aacgtactcg 360

attacgctcc gatatactct cttttaatca agatgtcgga gaagtttaat caagatatgt 420

gtccctccgg ggaagatccg gtcagggann gttaannant aagtttgggg ttaagtaaaa 480

tgttggg 487

<210> 3546
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H4

<400> 3546

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atatctacac aagaagataa gaagcttaag attctctcca caaaacaaaa atagttatca 120

gattcacaaa caaagccatc aaatttcatc attgatttgt tcaataagaa atgggaagca 180

aatggcgaaa agcaaaggtg gctttaggtc tcaatttatg tctctacgtt cccaaaacgc 240

ttgaagattc ttctcctcca agaagatccg acgacgccgt ttcactttct ccggttattg 300

ttcaaagacc atcaacgccg actccttcct cctctggtct ccgattacct cgttccatga 360

gcaaatcctc atcaaagaaa acttgtgcga tatgtttgac ggcgatgaaa gctggggcaa 420

gggcacgcc 429

<210> 3547
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-H5

<400> 3547

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atctaaatta cgtatcaaat tccgagcaag atgactattc ttgttgaaca ttttgttcct 120

gattcaagag tggatgaaaa gaaagtgata gaggagangg ataatgaatt ggtgttggnt 180

ggaggttttg nggttccaaa atcnaaggaa actgatgcan tcnatgctcc tganatgaat 240

ttcctgggcc antccttcaa ggantatgag aatggtgaaa gccagagaca acaaggtgtt 300

gangaanttt acagggtgca caccacatcc accagcccta ngactttgng aagaatatga 360

ggaaagagta tggaaacctt aacaggatgg aaatgngtat gg 402

<210> 3548
<211> 504
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-F10

<400> 3548

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cgcgtcngct catcttctct tccattcaaa tctcacattc cctcttcaca acaacagctt 120

cgtattcgct catcttcttc gctttctgat cttggaaatc gcaggcattg ttcgtctact 180

cgaggatttc aattttggtc atnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnac cggcggttcg tatttccgac 300

gggaatctaa tcatcaaaaa ccggacgatt ctaaccggtg taccagataa tgtcatcacg 360

acgtcagcat cggaagctgg accggtagaa ggagtcttcg tcggagctgt atttaacaag 420

gaagagagta acacatcgta ccgattgggt acgcttcgca attcccggtt aagtctggtt 480

tccggttaaa ctctggtgga tggc 504

<210> 3549
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-C7

<400> 3549

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acatgcgaga taatccaaca atgcatgtct tacaagcttc aaagtttcta tttttagctc 180

ttattttgat ccagttgctg tctactcaac tctttgctca aagatctaaa agtccatggc 240

aaacactcac tggagatgct ccccttgtca ttgctcgtgg tgggttttct gggttgttgc 300

cagattcaag tctcgatgct tacagttttg tatcgcagac tagtgttcct ggtgctgttc 360

tttggtgtga tgtgcaacta acgaaagatg caattggact ttgcttccct gatgtgaana 420

tg 422

<210> 3550
<211> 497
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-D1

<400> 3550

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ctccgactct ttccccttga acctagctta acagagaaaa tcaaagagag aggaaaaatg 120

agtggaggtg gtggagaaat ggaagagaga ctgttaaatg ggtcagagac agaacaaagg 180

agagagagtc tctacttgag aaaaaagatt tggagtgaag taaggaagat gtggagaata 240

gctttaccat caactttgtt cagagttatg tcgtttggat gcgtagtggt ggctcaagcc 300

ttcattggcc actccagtga aacgggtctc gctgcttatg ctctccttca aagcactttc 360

attcgcttca tctacggtat tatggcaagt atgtcaaatn cgacananac cttatgtngg 420

acnaacctac nggngcaaga acaattcccc aagaatgggg gaaaaacctt anaaangttc 480

cttggganaa ttaaaaa 497

<210> 3551
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-D12

<400> 3551

acgcgtccgc tcaaaatcaa aaagcacgtc ggtgacttgt actcttcaat ctcttcttcc 60

tctctttcac atctccttct ctcgaaccca tcgacctgcg ctaattcatc atcgaccttg 120

ctcaaattca tcaacnatgt cttacgatta tctcttcaag tacataatca tcggagacac 180

aggtgtggga aaatcgtgtc tgcttctgca atttactgat aagaggttcc aaccagtcca 240

cgatctcacc attggtgttg agttcggtgc tcggatggtc accgtcgatg gacgccccat 300

caaactccaa atttggggac accgctggan aagnatcttt tagattcatc accaagatna 360

tactacagag gagcanccng gagtttactg gntttatgac atcannaaga agagagacgt 420

ttaancatct gggcaagctg gtttggangg at 452

<210> 3552
<211> 483
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-D2

<400> 3552

tacgtgncgg tgccggtcan agaattaacg ggncgancca cgcgtccncc aagctaaaaa 60

tctcatagat cagagtcgtc gtcgtcaact tcatcatcac aaaaatctca gctttgnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nccgttactc ttgacaccat 240

caaccccaag gttatcaaat gtgagtatgc tgtccgtgga gaaattgtca acattgctca 300

gaaattgcaa gaagatttga agactaacaa ggacgcttat ccctttgatg agattatcta 360

ctgtaatatc gggaatcctc aatctcttgg tcaacagcct ataacattct tcagagaagt 420

tccttgcttt aagttcctaa acaagcctgg ttgggatgaa aagtgcaaca cacggtttgg 480

ttc 483

<210> 3553
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-D4

<400> 3553

aactttacct tcccggtgcc ggtcaagaat taacgggtcg acccacgcgt ccgaaagaga 60

gagaagaggg aagacaaagg gaagagggag gagagagaag gcaccaccct ttggccctgg 120

agagaccaaa gatggtcgaa gagagacaac tctgagatca tcatcatcat cctgcaaaaa 180

ctaacgagaa atcgattttc aaaaatataa tcaagatcga tttctaggga tattttgatt 240

tctaaatcct ctcaccaaca ttctcttgct tgccctaccc gcttgctggt ttcatccaag 300

aaacataata atacattgtt tgcattataa ggaattcctt tatacagtat caagagatcc 360

acaagaagct gttagatccc aagagattaa cactgtgatg aaaagggttt tgtgaaaatc 420

aattttcaaa cctggaaaat gatgatnaag gacccttata tccgacaatt ttcctctttt 480

cttcngt 487

<210> 3554
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-D7

<400> 3554

aacttctccc gccgcncggt aanggtcana gaattcccgg gccgacccac gcgtccnaat 60

atggtatctg aaaaggaaat tgatgcacct ttgcagattg gaattgttcg tgtctttgag 120

caacaaggta ttgaagctcc tagtgacgat gatgatttta ttgaggtaag atcaaaaagg 180

caaatgctta atgatcgccg tgaacagaga gaaaaggaaa ttaaagagaa gtctcaggca 240

gccaaggcat tccgaaaacc tcgttcaact ttccagaaca atactactgc agccaggtcc 300

aacagaagcc caccagctag ccgagctgcg aacaataagc agtttaatcc agtctccaac 360

agacagacgt tagccccaat tggcacacct tcacctaaaa tagattccca tgttgatgaa 420

aaatccggga acaacaagtc cactcaagga aattatgncc ctccca 466

<210> 3555
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-D9

<400> 3555

acgcgtccgc anagataagc aaaccagggg agaaacagaa acctcttgag aaggatgcgg 60

gtgagaagac tattgcatgg ctggacaggt tgagaaactc aaacgggtct ctacctactt 120

caactatcag attgaacatg cagaggatta tgcagaacaa cgcagctgtg ttccgcacgc 180

aagaaacatt ggaagaaggt tgtcagttga ttgacaaggc ctgggaaagt tttggggacg 240

tccaggtgaa agatcggagt atgatatgga actcggattt gatagagaca ttggaactgg 300

agaacctttt gataaacgca tccataacaa tgcattcagc aagaagcacg aaaggaaagc 360

aagaggagca catgctcggg aaaacttcac gaaannngana aggattggag aatgggttga 420

agcatacatt ggggatattg ggaaaattga gaaattg 457

<210> 3556
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-E10

<400> 3556

acgcgtccgc ttcagtgaca caaacccaaa gaaaagtagt gagaaacaaa atcgaggtaa 60

ctactagatg aagacgatga cgcaattaaa tattgcggtt gtggttgtag tgacggttct 120

tattggaatg ttgagatcat cggaggctca acttcaaatg aatttctacg cgaagagctg 180

tccaaacgca gagaaaatca tttcagatca tattcaaaat catatccaca atggtccttc 240

tcttgcagct cctctcatcc gaatgcactt ccatgattgc ttcgttaggg gatgtgacgg 300

atcggtgttg ataaattcaa catctggtaa cgcaagagaa gaagatgcac caccgaatcc 360

taacacttna aaggatccgg gttccgtgga aagggtttaa gggccctcct tgaaaaaatt 420

gtgtcccaaa gactggttcc ttgcgccaga taacaattgg ctttgacctg gctaaa 476

<210> 3557
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-E2

<400> 3557

cgcttcccgg tnccggtcaa gaattaacgg gncgacccac gcgtccncaa aaaaaaatca 60

accatggttt cgaaaccgct attctcccta ttgcttctca cggttgcatt ggttgtgttt 120

caaaccggaa cccttgtcaa cgctgaagat tccgagcctt cgagttcaac gagaaagcct 180

ctggtgaaga ttgtgaaagg taaaaaatta tgcgacaaag gatgggaatg caaaggatgg 240

tccgagtatt gttgcaacca tacaatctcc gatttttttg agacatatca attcgagaat 300

ctattctcta agcgtaacag tccaagtggc tcacgccgtc ggcttttggg attaccgatc 360

attcattact gcggctgccg agtaccaacc tcttggtttc ggtactgctg gtgagaaact 420

tcaangggat gaaggaagtc gctgcgtttc ctggccacgt tgggaacaaa acctcatgcn 480

<210> 3558
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-E3

<400> 3558

gtnccggtca aagaattaac gggncgaccc acgcgtccnc ggacncgtgg ggtgttactc 60

agtgcggtcg ttgggtcctt gataggatac ttggtagtcc tcatatgcag accacctcct 120

gagtttaata gattcaccat tgttatgact gcttttggaa atactgggaa tcttttgtta 180

gctattgtta gctcggtgtg tcacacgaag acgaaccctt ttggaccgaa ttgtaactcg 240

agaggggttt cgtatgtatc gtttgcgcaa tgggttgctg tgattcttgt ttatactgtt 300

gtgtatcata tgatggagcc gcctttggag tactatgagg tcgttgagga agaaggggtt 360

gagatagagg agatnaatgt ggagaatcat gatgctanta agccccctcc aattgaaact 420

gaatnggcaa aggaattnan ggacaanngn ncagaacaat tgcaagaaca cct 473

<210> 3559
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-E5

<400> 3559

acgcgtccnc tttcaaaagt actatgatac tgtcatgcct tatctcaaaa ctattttgat 60

gaatgcaact gacaagtcta agcggatgct tcgtgccaaa tccatggagt gcatcagtct 120

tgttggaatg gcagttggaa aggacagatt caaggaagat gctagacagg tcatggaagt 180

gctaatgtca ttgcaaggtt ctcagatgga ggcagacgat ccaataacaa gttacatgtt 240

acaggcatgg gctaggcttt gcaagtgtct aggtcaagat ttcctcccat acatgaaggt 300

tgtgatgcct cctttgcttc agtcagctca acttaagcca gatgtaacaa ttacatctgc 360

tgattcagaa gatgaagcan angantccga tgatgaaagc atggagaaca ataaccctgg 420

gggaacaaaa gaataaggg 439

<210> 3560
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-E6

<400> 3560

aactttccgc cgcncaggta aaggtcanag aattcccggg ncgacccacg cgtccnatta 60

tctccgagca ttctcaagtt gggtgattcg gtacggatta ctgatttggg agagaaaaac 120

cctagattgg aattagattc tgggttcttg ggctaaaggt ttcttcatct ccttcgaatc 180

atccttttag ggagcaagac gatgagtaga aacccttttcc tggatcctac tcttcaagaa 240

attcttcaag tgattaaacc cacacgagca gatagggata cgaggatcac agtcattgat 300

cagttgcgtg acgtcttaca atccgtagaa tgtttaagaa ggtgctactg ttcaaccatt 360

tggatctttg tgtcaaatct cttcacacga tggggagact tagatatctc tgttgactta 420

ttcagcggtt cttccatctt gttcactgga aagaagcaga aacaaacttt actcggacat 480

<210> 3561
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-C5

<400> 3561

acgcgtccnc ccacgcgtcc gggagactaa ctgtctcttt tctatgtact gttgccaact 60

acgagtatgg gttttactgg cacttctacc aggatgggaa aatcgaagct gaagtaaaac 120

ttactggtat cctcagttta ggagctctgc agccaggtga aactcgaaag tacggtacta 180

ctattgctcc tgggttgtat gcaccagtcc atcaacattt ctttatcgct cgcatggata 240

tgtctgttga ctgtaaacct gctgaagctt ttaatcaggt agttgaggta aatgttagag 300

ttgacgancg aggtgagaac aatgtccaca acaatgcgtt ttatgcggna agagaaatta 360

cttaaatnct gaagnaattg gcgaancctt actgtggacc nccttttggg cncccattgg 420

gtttttagg 429

<210> 3562
<211> 486
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-086-Q1-E1-F1

<400> 3562

ntgttacgct tccagtgccg gtcaagaatt aacgggtcga cgcacgcgtc cgctccgttc 60

cttagcttct cttccagatc caaactctca ccaaactttc tcacaacaca cacacaattc 120

gattcgatcc acactcttaa aatcccaaag atctctctga ttttgaaatt cgattcttcc 180

ccagatcaac ttgtgaattt ttccacaatt ttggttcatg attttgattt cgtgaaggac 240

ttatggattc acacccttcc ctaatgggaa ggtccattac caattcgaac cgatcgagct 300

tagatcttgg tcgtccttct tcgtcttctt catcttctcc ttcaccgtta accaaatcga 360

tctccgatgc aagtagtcaa agtctctctt cgattcttaa caatccacac ngnngnnaat 420

ccgggngtta angggtccga agcancctng ggttggttgg nggncttaat cgaaaatttg 480

tagccc 486

<210> 3563
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-A9

<400> 3563

aaccattcct ctcctcaaaa ccattaatct ctcttctctc tagcataacc tctctcagat 60

ggcttctaac tatgataagc ttacttcttc gagagtagcc atcatcggtg ctggtgttag 120

cggattagca gccgctaaga acttagttca tcacaacccg accgtattcg aagcctcgga 180

ttcagtcgga ggtgtttgga ggagctgcac ttacgagacg actaaattac aatcggctcg 240

agtcgattac gagttctccg actttccatg gcccaataat agagatgaca caactttccc 300

accttacctt gagatattag attacttgga atcttatgcc aaacattttg atcttctcaa 360

attcaatgaa gtttggctct aaagncatcc gaagtaaggg tcancggtga tg 412

<210> 3564
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-B10

<400> 3564

ttttacgctt gccggtgccg gtcanaaatt aacgggtcga cncacgcgtc cngtaaatta 60

aagtcttctc tacttcacca taaaaaatgc ttgcgcacaa gtctcttctc tcctttacca 120

cccaatgggc tacactaatg ccatctccgt ctacttttct cgcctctcgc ccccgtggac 180

cggccaagat ctcggccgtg gcagcaccag tgaggccggc tctaaaacac caaaacaaaa 240

tccacaccat gccaccggag aaaatggaga tattcaaatc tttagatgga tgggccaagg 300

atcaaatctt gcctcttctc aaacccgttg accaatgttg gcaacccgct tctttcttac 360

ccgacccggc cttacccttc tccgagttta ccgaccaagt tcgtgagctg aagggaaaga 420

acggnctcgc ctgccaagac gaatacttcg tgggtgtttg ggttggag 468

<210> 3565
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-B11

<400> 3565

cccttgnaaa cgttaaatga tcttctcctc cgatcattag tctctttaat ctttctcagc 60

ctcttcttgt tcgtgatctc tcttcctccg gaaaaagatg tcggccggta acggaaatgc 120

tactaacggt gacggagggt ttagtttccc taaaggaccg gtgatgccga agataacgac 180

cggagcagca aagagaggta gcggagtctg ccacgacgat agtggtccga cggtgaatgc 240

cacaaccatc gatgagcttc attcgttaca gaagaaacgt tctgctccta ccacaccgat 300

caaccaaaac gccgccgctg cttttgccgc cgtctccgag gaggagcgtc aagaagattc 360

agcttcaatc tatcagtgca tccgttaaca tccttaacga gaagaatcaa gga 413

<210> 3566
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-B12

<400> 3566

agtgccggtc aagaattcac gggtcgacnc acgcgtccna aaagtttgga ttcctccaat 60

aaagaacatg annnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnng gcactaaacc caaatccgtc gttagcctcc accggtagca acatcaacac 180

aaacgacatc gtgacgcagt acagcacata cgttagaacg cgtgcaacgt aacgcgatac 240

aaccgcctct gcgtccgaac gctatggccg tttgcaatcg tcgctcgaaa caacaccagc 300

aagtgggctc gagctagcgt cgcggttacc ataaccgaca ccaaacgggt gctgaggctc 360

ttgctcaaaa cgcagcgttc agcagttggc gaaagcgaag cgaatcgcgt tgtccggatt 420

gccgagaact cntcgtggac tctctcgaac a 451

<210> 3567
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-B4

<400> 3567

nttctacgtg gtcgggccgn gtcannaatn accgggtcga nccacgcgtc cgttctggtc 60

atcgatcaag cctgctcatt ttggtgtaaa gataacgtcc aaatctctct ttgggatatt 120

ccgatatgtt acacttggng tgtcacttgg tttactttcc aagttctcct tcggaagatg 180

gcttcttttg aaattccctt cagttttcag ccttggttgg ttccagaaga aaggtccaag 240

tgaagaagag gtagaaagcg ctacgtttaa gatgtggttc ataggtcgtg ggtacagcga 300

atagagtcta gcttcacaag gagaaacaaa gcctgacttg gaaatcatta caagaatttc 360

aggacctgag attggatata taaccacccc gattacactt gttcaatgcg gtttgatant 420

cctggggcca gcgcgaaaag ctagtttaan ggaggagtca anacacccgg cattg 475

<210> 3568
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-B8

<400> 3568

cgacgcggna caggtacagg tcacagaatt cccgggncga cccacgcgtc cnaattaaga 60

cgatggcggc tgcaatggct tctcatgttt cgacggctcg atcaccggct ctttccttct 120

cttcttcgtc ttcctccttc ttccccggta ctactcttcg gagattctcc gccgtttcac 180

tcccttctcc tgctctccct cgccttcgtg tttcatgtca agcctcctcc gtcacttcgc 240

cttcttctcc ttccgatgtc aaaggaaaat ctgacctgaa agactttctg gcaatagatg 300

attttgacac agccaccatt aaaacgattt tagacaaggc ttcagaggtt aaggccttgc 360

tgaaatcagg ggagagaaaa ttatctacct tttaaaggga agtctatgtc taagatcttt 420

gcaaaaactt tcaatgaagg acccgggttt cgttgana 458

<210> 3569
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-B9

<400> 3569

tcangggccg acccacgcgt ccncacagag ctgacgttag catttgtctc tgaaatccca 60

gatccgaaaa cccaacaatg gcgtcagaga acaacggatc cagatccgat tccgaatcca 120

tcaccgctcc caaagctgat tccaccgtcg ttgaaccgag gaagatagct ctgatcaccg 180

gaatcaccgg ccaggacgga tcatacctga cggagttcct tctcggaaaa ggctacgaag 240

ttcatggtct gatccgtcga tcatcgaatt tcaacccca gcgaatcaac catatctaca 300

tcgatccaca caatgtcaac aaagctctga tgaaactcca ctacgccgat ctcaccgacg 360

cttcctctct ccgtcgttgg atcgatgtga tcaaacctga cgaagtttat aacctanctg 420

ctcaatctca cgtc 434

<210> 3570
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-C10

<400> 3570

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gcattaaaga ctttggagat tcttggaatt gataaaaagt ctgatcttag ctcaaagact 120

tgtgagaatg tggttaaagt tcttcagtcg tcttcttcta ctcttaagga tgcattttat 180

gcgttaaacg ttaatgggat tctaaaatgt aaaattggtg aagctggtcc taaggacatt 240

gtttctcaac ttcaagctgg tgttaaagat gcgaagctat tgcttgattt ctattattct 300

gtcagaggct tggtgctggc taaggagcaa tttcctggaa ctcatataag tcttggagat 360

gccgaagcca ttttccgttc catcaagtct cttaaccaga gtgatggaan atggcgccta 420

cagctccaac aatccccgaa tcaaagcact tt 452

<210> 3571
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-C4

<400> 3571

gggcccggtc anaaataaac gggtcgaccc acgcgtccna gcattttcgc ttcaattcaa 60

taaaaggcga aaaatctctc actgcacttt atctcgagag ctcagatctc cgatctagag 120

cctttcgctt ctcctcttct gttcatataa caactgaata atgtcgatct ccgcccaaaa 180

tccggatatt tccggcgata gacaatccgg ccaagatgtt cgtactcaga acgtgatggc 240

ttgtcaagct gtttctaata ttgttaagac ctcacttggt cccgtcggcc tcgacaagat 300

gttggtggat gatattggtg atgtgactat tacaaatgat ggtgctacta ttcttaggat 360

gttggaggtc gagcaccctg ctgctaaggt tcttgtcgaa gttagctgaa cttcaagata 420

nagaagtcgg tgatgggact acatccgttg ttaatgtagc tgctg 465

<210> 3572
<211> 391
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-C8

<400> 3572

anagtgagtc gtatctactg aatgcantct cagaagatgg cagcctgtng acgatgccac 60

cctgggttaa cccgtggctg ctcctgacaa tggctgtctc atttggactc cactttgtga 120

tattgtangt cccattcttg gctcaggtgt ttggtattgt gccactgagc ttgaacnagt 180

ggctgctagt gctggctgtg tcgctgccgg taattttgat agacgaagtg ctcaagtttg 240

taggaaggtg cacgantggc taccgctact catctcgcac tccctcagct aagcacaagg 300

angagtaata aaataattca nnaggcattn ttattacact cttanttta gctgangtta 360

actttgttgc tttactcatc cntgcctaat t 391

<210> 3573
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-C9

<400> 3573

caagaantca cgggtcgacc cacgcgtccn ggctgcttng agtanggcgc tgtttaacaa 60

tggtatgagt tgtggagcct gctttgagct aaaatgcgcc aacgaccctc aatggtgtca 120

ctcaggtagt ccttcgatcc tcatcaccgc aaccaatttc tgcccaccaa acttggctca 180

gcctagcgac aacggaggat ggtgcaaccc accacgtgaa cactttgacc tagccatgcc 240

tgtcttcctt aagatcgctc aatatcgcgc cggcattgtc cccgtctcat accgcagggt 300

gccatgtaga aagagaggag gcataaggtt cacaatcaac ggtcaccgtt acttcaactt 360

ggttctgatn actaacgtgg ctggagcaag agacatcgtg agggctaatt gttaaaagga 420

tnacgggact ggttgggatg aatt 444

<210> 3574
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-D1

<400> 3574

aactttacgt tcccgggccg gtcaagaatt aacgggtcga cccacgcgtc cngcgtaagg 60

ttagcaatcc ttctttcatt gccgcacagt cgaagtttga ggaactaact tcatctactg 120

gttcaaacaa agcaatgacg ctgtcttcta aagatgatgt tttgggtgaa gaaggcaaaa 180

cagatataga ttcaccagac actacaaaca cactaaagga tcactctttg gaagatgtta 240

ctccagctga gcttagtgga tccgagtgtg gcaccgaact ctctgtaact tcttctcttg 300

acacacttga gaagaagtca gacgctgagg gtgcagagcc cagggtagaa gctaagcttt 360

tagaggatga cacttttaaa acagaccaag cagagttgat agaaattgat gttaaagacg 420

caacgtcaat gggtactggt tnaagaaccc taaggg 456

<210> 3575
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-D3

<400> 3575

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tcccattttt gtctctcaag tcaacattga agccacttaa acgcctctcc gtcaaagccg 180

ccgtttccca aaactccacc aaaaccctca cgaaagaatc tgcttcctct ttcgaccact 240

gtttcaagaa atcatcagat gggtttctct attgcgaagg aaccaaggtt caagatatca 300

tggaaacagt cgagaaacga ccctttttact tatatagcaa acctcaagat cacganaaac 360

cttgaggctt ataaagaagn tttgggaagg attnnattcg gtnatnggtt acnccattaa 420

agctaataac 430

<210> 3576
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-A8

<400> 3576

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ttttggtaat caggctccaa cctcaacaat gaatggttcg aaaaaagaag ataccagagc 120

cttcgatttc atttctgatc atcttacatc agcccgcgac acaaagagag tatcttgatg 180

gttgcttaca aaattccgcc ttccagtgtt aaatgctatt tcatgagatg tggacacaag 240

ggtgcaggaa gctaaaacat taatttatga gagctgtata nacttgagga gaaaatggag 300

atagctttat aattcatatg gtaagggttt ttgcttcttt tatctgtttc ctccgttttg 360

tcnttggttt ttcctcctcc ttggantcca attggtcctt ggaatgaaca tgtagttgta 420

n 421

<210> 3577
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-D6

<400> 3577

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tttttgttca tgtcttcttc ttcttcttca agaatgagct aatactcaca gaagaagaag 120

atttttcttt ggatttttca ctactgaggc attgttgtga aattggatgg tagtagcatt 180

ggaatggcag aacaaaagag tagtaacgga ggaggaggag gaggagatgt tgttatcaat 240

gttccagttg aggaagcatc aaggcgttcc aaggaaatgg cttcaccaga gtctgagaaa 300

ggagttccct ttagtaaaag cccttctcct gaaatctcta agcttgttgg tagtcctaac 360

aagcctccta gagctccaaa tcagaacaat gtgggtctaa ctcagaggaa atcttttgca 420

aggtcggttt actcaaaacc caagtcccgg tttgttgatt catccntgtc ccggt 475

<210> 3578
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-F7

<400> 3578

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aaaggcggng tctctctcca gttattttgc tcatccatcg attcttanag ttcaaaatgg 120

ntgatcaagt tcagcacccc actattgcgc anaaagctgc cgggcagttc atgcgttcaa 180

gtgtttccaa ggacgttcaa gtgggttacc agaggccttc tatgtatcaa agacatgcaa 240

cctacggaaa ctactccaat gctgcatttc aatttcctcc gacatcccgg atgttggcaa 300

caaantgcnt ctcccgtgtt ttgtccaaac ccccangaag aagaaagggg ttcactaacc 360

tttgcccgnt gcctttctga tngggtggtn gtttctgctg ncggtctcga agncctgcnt 420

gctgctcctn attgaacgtg ttaaggctt 449

<210> 3579
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-G11

<400> 3579

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agaagctcct tcatcacaag gagctcgaat cccgtgtccg aacagctagg gagaatttaa 120

gagcagctaa gaaggaattc aacaaaactg aggatgattt gaagtctctt caaagcgttg 180

gccagattat tggagaagta ctacgtcctc ttgataacga gcgattgatt gttaaggcaa 240

gtagtggccc tcgttatgtg gtgggttgtc cgtagcangg tggacaacga aaagcttact 300

tctggaactc ggagttgtcc tggatatgac tacgcngaca attatgcgag ccctntcctc 360

gtnaagttgg atcctgttgt ttatancaan gttngcatga nggatcaagg ccaa 414

<210> 3580
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-G12

<400> 3580

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gactactaat gaagagttta aagctgcggt atccgctgcg aagcaagcgt ttccgttgtg 120

gagaaacacg ccgattacta cccggcagcg tgttatgcta aagtttcaag agcttatacg 180

caagaatatg gataaacttg ctatgaacat cacanccgac caagggaaga ctttaaagga 240

ttcacatggt gatatcttcc gtgggttaca ggtttgtgga gcatgcgtgt ggaagggcaa 300

ccttacanat gggtgaaata tctcccccaa tgngtcgaac gggagtttga tacatatagt 360

nttaggagaa ccattanggg ttntgtgcct ggcattttgt ccttttaaag nttccaagg 419

<210> 3581
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-G2

<400> 3581

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cgtagccgtc ggctggggaa ggagacgaat cgatccgatc tattcaaaaa acctgcagtt 120

ccattcgcat tcgcgctaat tcttgctgat gcaatcctag tcgcacttat tatcgcctat 180

gttccataca cgaagatcga ttgggatgct tacatgtcac aagtgggttt ctcgggggag 240

agagagacta tgggaacttg naaggcgata cagggccatt gggtttatcc aagcaaggtt 300

tcctctatgt ttactctgca gtgcagaact taaactggga aggggaagtc taccctgctc 360

aagattcttt ttgggtgttc tcctacaatt gtcaatcctg ggggatncgt ccntggatca 420

tcctacgt 428

<210> 3582
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-G3

<400> 3582

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ttagagagat ttctccttca ataacaaaaa atcgccagct ttatctctct ctttttcaca 120

tcccatggct agatggtgac gacgattcac gcataaacta gggttccccc acaaatcatc 180

ttacacgtat cctctattcc ttccttcctt tctccgtcat catcattttt cccanccgac 240

aacaatctct cggagtttgg gtattattac ttctctcatc aancaattgt nccactagat 300

ctcccagatt ccttcattat ctctatcaat aatggcgttt gaaagtcnag tttctgcctg 360

atggtaaaaa ccaagaaagc tctgttcang atcttcaagt gggtttangn ttanggttgg 420

cctcntttan nttttgggaa gcatgggcaa acng 454

<210> 3583
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-G7

<400> 3583

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gaaaacagtc tgaggtagtc tccgaggaac aaaaccgtcc taacaagtcc ccaaggagct 120

ttgacaaacc atcaccgagc aataaaaagg gcaatggttt taagaaaccc aagagcaaga 180

aggtggactg gagcgttttg aggccaccaa aacctcaaac caaatagggt ttaaattagc 240

taactacagc aatctatatg ctattagtta catcggttca tatgttctag tacatcgttt 300

gttgctctgt ctgtatcgtc attcccgtgg tgttgcaacc cgttggataa attatagcca 360

aaagttttga atttgtttgg ggttaaaann tgtccgttgt tgtcnaaaat 410

<210> 3584
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-H1

<400> 3584

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gccgttggag ccacggtcat gctcaatatt ctagtcgcag ggccatcgac tggtggatct 120

atgaatcctg tgagaactct aggaccagcc gttgcatcag gaaactatag gtcactatgg 180

gtgtatctgg tggctcctac acttggtgcc atatctggtg cagcggtcta cacaggtgtt 240

aagcttaacg atagccgtga ctgacccgcc tcgtccggtt aggagctttc gtcnttaagt 300

gagtgagaga cttgtttaca agtcttttgc tttgtataat tttactgtaa gattaagtaa 360

tgatatcaaa aagctttgga aagcntgtgt naagaatnaa aggcatgtta cnaaaaagtc 420

accca 425

<210> 3585
<211> 442
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-H5

<400> 3585

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tgggatcgcc aaaatactac ctgatgggct tttgcagttg acaaatacta cagagttgca 120

aatgggtcat gctttcttca agaagccgtt tgattttgat ccatcttcat cactatcgtt 180

ctatacacat tttgtgtgtg cgcttgtgcc tcctaagttg ggagctgatg gtggccatgg 240

gattgtcttt gttgtatctc cttcccattg atctctctca tgcatacgca actcagtact 300

tgggggtcct tcancaaact tancaaaatg gggacttcct ccttaacatc ctgccnagct 360

anntgancnt ccatnaccgt taangacatt ngagttnaaa nggagctgga ncaaagccnt 420

catgttcggg nattggattt gc 442

<210> 3586
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-H7

<400> 3586

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ctcgctcttc ccttttaatt ttcatcccat tttcttgaag gagatttcta attattctgt 180

gatctaaagt ctgaagcttt gtttggttgc atctcgatga tgatgatgat gatggttgat 240

tgtaaatggg tagtttcggt ttggttgtag caagaagcta agtttgtcaa gttaataaga 300

gtattttaag ttttttttt gtnaaatcna tttggtgggt tcaacaancc nacgatcgga 360

naagttttcc anccnttgan taatttgaga ntcnggggat ttttacggag aanttcgagt 420

<210> 3587
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-085-Q1-E2-A12

<400> 3587

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cagagataga ttcttatata ctactgagaa tcttcaattt ctgcaacttt tgtatctctt 180

cctgatggag tcttcaagtc cccaccatag tcacattgtt gaggttaatg ttggaaaatc 240

tgatgaagag agaataattg tggcgagtaa agtctgtgga gaagcaccat gtgggttttc 300

aagattctaa gaatgcttcc ggggatgctc acgaacgctc tgcttctatg cggaagcttt 360

gtatcgccgt cgtgctgtgt ccaatggtca agaatgttga aattgt 406

<210> 3588
<211> 479
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-A2

<400> 3588

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caattcctat catttgttaa gaaaaagagt tagaagtatt aataatctta caatatttat 120

agataagata acaacaatat gaagcattct cacgttttgc ttcttctatt tgttcaagtc 180

attgcccttt tgcctctcct ttgtctatcc gacgattttg ttaactctag agctacttat 240

tatggcagcc ccgattgcaa agcaaatcct cggggacatt gtgggtatgg aagaatttgg 300

aagagatatc aataacggtg aaattgagtg gtgtttcatg ggcgactatg gaacaaatgg 360

aactggctgt ggtgcttgtt accaaggtga ngtgcaaaga taccaccaca ctgcagtgaa 420

ggaaaggagt atacgtagtg gctacggact ccggaaaaag gaaatggaac ggacttcat 479

<210> 3589
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-A3

<400> 3589

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atgaacataa tgaatgattg gcaagagcag acgaaaaaag ccattgaaga agcaaccacc 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncctcgc 300

ggtgcaggta acaagaaact cacaccttgt ggctgagact agagaccgag acacacatta 360

tttaacactt tctccctctc ttttgtttct tatttccaaa acctcttcgt tcacttatta 420

taatgtcngt aatgttatca tccttccaan cctaaancct tanccttcag attttggggt 480

tcacg 485

<210> 3590

<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-A4

<400> 3590

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ctcctattca ggaagaaagc attcccattg ctttgactgg tagtgatatt cttgctagag 180

ccaaaaatgg tactgggaan actggtgcct tctgcattcc tacccttgag aaaattgatc 240

cagagaacaa tgtcattcaa gccgtaattc tagttccaac ccgagagctc gcccttcaga 300

catcccaggt ttgcaaggag ctttccaaat atttgaaaat tgaggttatg gtcaccactg 360

gcggtaccag tctgagggat gatatcatgc gattgtatca acctgtccat ttactggttg 420

gaactcctgg tagaatanta natnctgcca aaaaaggtgt ntgtgttttg aaaaat 476

<210> 3591
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E2-A7

<400> 3591

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cacttcctcc gactacaaag accacatcga gacttgtttc ggtgtcattc gtagagaaat 180

cgagcgttct ggagatcaag ttttgccttt tctactacaa tgtgctgaac aattgcctca 240

taagattcct ttgtatggga ctttgattgg tttgttgaac ttggagaatg aagattttgt 300

ccaagaagct agtagaaagt gtccacgcta atttccaggt cgctttagat tctggcaact 360

gcaacagtat ccgtatattg cttcgcttta tgacttccct gttgtgcaat taaggttatc 420

aaactngctt ctttgnattg ncgnccttcg aaaacattgg c 461

<210> 3592

<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-E8

<400> 3592

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tggtactgtt tctggatctg tgcgttgaat ccggattctc tcagtcaacg ccggcgcgtg 180

acgatcacgt gcatcatcac ggtggtgggt gtagtcattc ncatgaccac gaccacgacc 240

acgatcatga tcatcatgtg angaagacga cggcgaaggt ggagatgaag ttgccggang 300

aacttgctga ataggacgat atgagattat gtgggtttgg ggccttgtct tcatgatcac 360

natcacgaat caangttcac tcntacgggg gtttgctcgg tgggcttant gcattgggaa 420

<210> 3593
<211> 422
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A12

<400> 3593

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tggcccctta cccagagata gattcttata tactactgag aatcttcaat ttctgcaact 180

tttgtatctc ttcctgatgg agtcttcaag tccccaccat agtcacattg ttgaggttaa 240

tgttggaaaa tctgatgaan agagaataat tgtggcgaag taaagtctgt ggagaagcac 300

catgtgggtt ttcaagattc taanaatgct tccggggatg ctcacgaanc gctctgcttc 360

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gt 422

<210> 3594
<211> 423
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A2

<400> 3594

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tgttcaagtc attgcccttt tgcctctcct ttgtctatcc gacgattttg ttaactctag 180

agctacttat tatggcagcc ccgattgcaa agcaaatcct cggggacatt gtgggtatgg 240

ngaatttgga agagatatca ataacggtga agtgagtggt gtttcatggc gactatggaa 300

caaatgggaa ctggctgtgg tgcttgttac cacgtgaggt gcnaagatac annacggggc 360

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cng 423

<210> 3595
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A3

<400> 3595

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gagatgaaca taatgaatga ttggcaagag cagacgaaaa aagccattga agaagcaacc 120

accnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncct 240

cgcggtgcag gtaacaagaa actcacacct tgtggctgag actagagacc gagacacaca 300

ttatttaaca ctttctccct ctcttttgtt tcttatttcc aaaacctctt cgttcactta 360

ttataatgtc tgtaatgtna tcatctttct actcttaagc cttagactac nagattttgg 420

attcacgga 429

<210> 3596
<211> 426
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A7

<400> 3596

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tttcggtgtc attcgtagag aaatcgagcg ttctggagat caagttttgc cttttctact 180

acaatgtgct gaacaattgc ctcataagat tcctttgtat gggactttga ttggtttgtt 240

gaacttggag aatgaagatt ttgtccaaga agctagtaga aagtgtccac gctaatttcc 300

aggtcgcttt agattctggc anctgcaaca gtatccgtat attgcttcgc tttatgactt 360

ccctgttgtg cagtaaggtt antcaacctg cttctttgat tggtcgtcct ccaaacattt 420

gctatc 426

<210> 3597
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A9

<400> 3597

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aaaccattaa tctctcttct ctctagcata acctctctca gatggcttct aactatgata 120

agcttacttc ttcgagagta gccatcatcg gtgctggtgt tagcggatta gcagccgcta 180

agaacttagt tcatcacaac ccgaccgtat tcgaagcctc ggattcagtc ggaggtgttt 240

ggaggagctg cacttacgag acgactaaat tacaatcggc tcgagtcgat tacgagttct 300

ccgactttcc atggcccaat aatagagatg acacaacttt cccaccttac cttgagatat 360

taagattact tggaatctta tgccaaacat tttgatcttc gcaaattcat gaantttggc 420

tcctaangnc atcgaagtta aggttcatcg ggt 453

<210> 3598
<211> 428
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-B10

<400> 3598

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ctctcgcccc cgtggaccgg ccaagatctc ggccgtggca gcaccagtga ggccggctct 180

aaaacaccaa aacaaaatcc acaccatgcc accggagaaa atggagatat tcaaatcttt 240

agatggatgg gccaaggatc aaatcttgcc tcttctcaaa cccgttgann caatgttggc 300

aacccgcttc tttcttaccc ggacngcggg ccttaccctt ctccgacgtt taccggacca 360

ngttcgtgaa gctgacggaa angaacggnc ctcgctggca gacgaatact ttcgtggtgt 420

tggttgga 428

<210> 3599
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-B4

<400> 3599

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agatggcttc ttttgaaatt cccttcagtt ttcagccttg gttggttcca gaagaaaggt 180

ccaagtgaag aagaggtaga aagcgctacg tttaagatgt ggttcatagg tcgtgggtac 240

agcnaaagag agtctagctt cacaaggana aacaaancct gacttggaaa tcattacnag 300

aatttcagga cctganattg ggtatatnac caccccgata acacntgttc aaatgcnggn 360

ttggataagt ctgggccaag cgcgaaaagc ctagnttaaa gggaggantn ctacacaccc 420

gggcaatngt gtttgg 436

<210> 3600
<211> 409
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-B6

<400> 3600

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gacgatgacg caattaaata ttgcggttgt ggttgtagtg acggttctta ttggaatgtt 120

gagatcatcg gaggctcaac ttcaaatgaa tttctacgcg aagagctgtc caaacgcaga 180

gaaaatcatt tcagatcata ttcaaaatca tatccacaat ggtccttctc ttgcagctcc 240

tctcatccna atgcacttcc atgattgctt cgttagggga tgtgacggat cggtgttgat 300

aaattcaacc atctggtaac gcaananaaa gatgcaccaa ccganttcta gcaacttnga 360

gaggattcgg tttccgtgng aaaaggatta acggctctgc cttgaaanc 409

<210> 3601
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-B8

<400> 3601

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ttcactccct tctcctgctc tccctcgcct tcgtgtttca tgtcaagcct cctccgtcac 180

ttcgccttct tctccttccg atgtcaaagg aaaatctgac ctgaaagact ttctggcaat 240

agatgatttt gacacagcca ccattaaaac gattttagac aaggcttcaa gaggttaagg 300

ccttgctgaa atcaggggag agaaattatc tacctttaa agggaagtct atgtcnaatg 360

atcnttgcaa aaacttccaa tgagggactc gggtttcgtt tgaaanctgg gtttttcctt 420

g 421

<210> 3602
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-B9

<400> 3602

agagctgacg ttagcatttg tctctgaaat cccagatccg aaaacccaac aatggcgtca 60

gagaacaacg gntccagatc cgattccgaa tccatcaccg ctcccaaagc tgattccacc 120

gtcgttgaac cgaggaagat agctctgatc accggaatca ccggncagga cggatcatac 180

ctgacggngt tccttctcgg naaaggctac gaagttcatg gtctgatccg tcgatcatcg 240

aatttcaaca cccagcgaat caaccatatc tacatcgatc cacacaatgt caacaaagct 300

ctgatgaaac tccactacgc cgatctcanc gacgcttcnt ctctccgtcg ttggntcgat 360

gtgatcaaac ctgacgaagt ttanaaacct agctgcncaa tctcacg 407

<210> 3603
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-D11

<400> 3603

agatctgatt gtggttgtgg ttgacttctt cttcaaaggt ttcacgagta caataatgag 60

tcaaaagggt ttgatatata gctttgttgc taaaggaaca gttgttctag cagagcatac 120

tccttattca ggaaacttta gcaccattgc tgttcaatgt ctgcagaagc tacccacaaa 180

tagcagcaag tatacttact cttgcgatgg tcatactttc aatttccttg ttgacaatgg 240

ctttgtgttt ctagtggttg ctgatgagtc caccggaaag aagtgttcct ttcgtgtttc 300

tcgaacgggt caaggaagac tttaagaagc ggtatgaagc gaagtataaa agaatgatga 360

gccgacatcc tcttgccgga tgangacgaa agatgatgat ttgtttggg 409

<210> 3604
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-D8

<400> 3604

aaaataaata aaagatctaa ctttgacggc tctcttaatc ttactcactc cggttttaag 60

tcggaataga ctgatgggag cttgatggtt attgttagat cagatgtgga tttaaagcct 120

tcgctgaact aacaagtcta tggaagaagc aaagaccctt gttttacact gtatgttgtg 180

aggaatttgt ctgattttgg gtgataaagg tgaagtcttt gagtttgtaa ttttgagata 240

agattggatg gtgggaagag aggatgccga tggggaatga tgaagctcct cctgcgntct 300

aaagaaaatg ttttgggcgg tctgccctcc tggtcctgct tcacgggacn gncatcanca 360

agttcctgaa nggtgacgaa gcaaangcct gaacatttcc ggtntgc 407

<210> 3605
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-D9

<400> 3605

aaatccaatt gaccgaataa aatccagtaa accgatccat aaaccaaaat tggaagaaaa 60

caatgcctgt ttaataggtg ttgaaacttt gctgaaaaaa aacgaagcga gcaccctcta 120

aaatgccttc gatttctctg gcgccattga tttagttttc tctctctgac tacaaagtat 180

ccattcgttc aaaccagttt cttcccattt tcgatttctg tcaaaattca ccaaccaact 240

ccaaaaactc tgttattgaa taagtttctt gatcttaaaa caaacgatct caaagaatgg 300

cacgacacga tcctaatcca tttgctgatg aagagatcaa tccttttgcg aatcatacaa 360

gtgttcctcc tgcgagcaac tcttatctca agccaanttc a 401

<210> 3606
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-E10

<400> 3606

acgcgtccgc ccacgcgtcc gcccacgcgt ccgaaaaaaa gggttaggtg gatctctcat 60

gaaatcggtg gagctccccc atatcttttt taaatacctt tcttcttttg gccccttanc 120

cagagataga ttcttatata ctactgagaa tcttcaattt ctgcaacttt tgtatctctt 180

cctgatggag tcttcaagtc cccancatag tcanattgtt gaggttaatg ttggaanatc 240

tgatgangag agaataattg tggctagtaa agtctgtgga gaagcaccat gtgggttttc 300

anattctaag aatgcttccg gggatgctca cgaacctctg cttcatgcgg aagctttgta 360

nngccntcgg tgctntgtct actggttcat gagntgttga a 401

<210> 3607
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-E11

<400> 3607

acgcgtccgg tctctctctc tcgggtcaaa attagggttt cgtttcacta tccagagtgt 60

atacaaaggt tgttgtggag cttttatcag atcacaggaa taagatggag gtatttggaa 120

aatctcccat ggttgttaca tctgccaatg ttatttactt gtctgcaatt ctgggtcgcg 180

attgcgatgg acacaaatgt gattggaaat gtgagaatga aaatgtttgt gggaatatgt 240

atcgctgcaa actaactgga ctaactcatg tctgcgacaa gaactgtnac cagcggattc 300

tctatgataa ccatagctct ttgtgccgag ccantgggag gattttccct ctctcgtccg 360

tcganggagc aangcggttt aaagggtgtt cgggganggaa agccttga 408

<210> 3608
<211> 371
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-085-Q1-E1-A11

<400> 3608

ctctgcanct gatcgatata caaaggaaan aagcagtatt gttgtgattg gncttagtat 60

tcacacagct cctgttgaga tgcgtganaa gcttgctata ccngaagctg aatggccaag 120

agctattgct gaattgtgtg gtttgaatca tattgaanaa gctgctgtgc ttagtacntg 180

taaccgtang gagatttatg ttttancttt atctcagcat cgtggagtta aagaagttac 240

tgaatggntn tcaaagacca gtgggatccc aagtttcaga gatttgtcaa cacngttttc 300

tgttgtacaa caancgatgc tacacaacat aaatttnnga gttctcaanc tggtccntgg 360

actcctcttg t 371

<210> 3609
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B8

<400> 3609

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ttctctcttt accttgaagc ttcaatatca accaaatctt ttttctcaaa atctcaaaga 120

atctctcaaa ctcagtctcc tatctgtctc tctgcaaact attaccaacc agataattta 180

gatatggaag ctactcagaa acatatgatt caagaaggat cttcaatgtt ttaccatcaa 240

ccatcttcag tcaaacaaat ggacctttct gttcagacat ttgattctta ctgcacactt 300

gaatcctctt caggcaccaa gtctcatcct tgtcttaaca acagaaacaa ctcttcttca 360

nccacaagct tttcctctaa tgaaagtccc atttctcaag ccaacancaa cancttatca 420

aaggtttaac aatcantccc ctggaagaaa acaataactc ctccccttga ancg 474

<210> 3610
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-C11

<400> 3610

naaactgtta cgcctggccg taccggtccg gaattcccgg gtcgacccac gcgtccgaac 60

atggggtacg acggctccag gtttgcctta cgtanacgag gcgataacta atgctggaaa 120

ctggctcatt gggggtgatc ttgaggttct tgagccagtg aagtacaatg atgggcttga 180

tcgtttcagg ctttcgcctg ctgagttacg taaagagttg gagaagcgta atgcggatgc 240

ggtgtttgct ttccagctga ggaatcctgt tcataatggt catgctcttc ttatgactga 300

tactcgtagg agacttcttg agatgggtta caaaaaccct attcttttgc ttcatccgtt 360

angtgggttt acaaaggctg atgatgttcc tttagattgg angatgaagc aacacgagaa 420

ggttctanag gatggtgttc tcgatccgga gactacagtg gtttcgatat tcccgtcacc 480

tatgcattac gctgggtcca accgaa 506

<210> 3611
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-C3

<400> 3611

acgcgtccgg ttttgagaat ttgacaaaaa tttgtttatg taatcttagt tttcgctgat 60

tttgagtaag ttatcgacat ggatattgat gtcggaccag ttgatccatc tgtcctatac 120

gagcaagacc tccatgtttc ttctgctgtt tgggaaggac aggaacgagg tctacttcgt 180

tgtcaagaac acacttcatt gctacatcaa tggaaactca ctgatgaaca aattaacctc 240

gtggacaaag ctggtttcgg ttactttcgc aaaatcggtc caatgaagtt taaacaattc 300

actgatctcc tgcacttgtt gagcgatgga gaagagaaac caatactttt catccttcct 360

ttanggagaa aatgactata accttaaacg aagtttgcct taantaactt gggacttgag 420

aattgatgga gattccaatt gttgggtccn aaagtttggn gatgaaggtt g 471

<210> 3612
<211> 527
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-C8

<400> 3612

actgtttccc tggccctacc gagtccggan attcccgggt cgacccacgc gtccggctac 60

gacaaagaag gacacccagt ttgttacaat gcttatggtg tgtttaaaga gaaagagatg 120

tatgagagag tgtttggtga tgaagagaag cttaacaagt ttctgagatg gagagttcag 180

gttttggaga aaggtgttaa aatgcttcat tttaaacctg gtggtgttaa ttccattatt 240

caagttacag atcttaaaga tatgcctaag agagagctta gagttgcttc taatcagatc 300

ctctctcttt ttcaagataa ttaccctgaa ttggttgcta ctaagatatt cataaacgtg 360

ccttggtact tcantgtgat ctactcaatg ttcagcccat tcctgactca agagaacaan 420

gagcnagttt gtgatgtcca aagaaagcaa tgcancanaa acactcnaaa attncatnag 480

gccaaaaaat tcccgggcna nacgggggggc ctnaaccctt ccaaaag 527

<210> 3613
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D10

<400> 3613

acgcgtccgg ttttgaaagt gttcctgaaa gctccattac aaaactctcg aggtctgaga 60

ttaagcagga attagtgaac gctcaaagaa agcacttgga acaaatgata ctgcccaatg 120

ttttggaact agaggaggtt gatccctttt tcgatcgtga ctcagtggat ttttctctac 180

gcatcaaaaa acgccttgag gaatcaaaaa agctgcagag agatcttcag aatcgtatca 240

gaaaacgtat gaaaaagttt ggtgaagaaa agctttttgt tcaaaagact ccagaaggtg 300

aagctgtcaa gggatttcct gaagcagagg tgaaatggat gtttggagag aaagaggtgg 360

ttgttccgaa agctatccag ctccatctac gccatggttg gaaaaagtgg caaggaagaa 420

gcaaaagccg attttaaaca gaaacntttg ggaaaagttg aattttggca aacaa 475

<210> 3614
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D3

<400> 3614

acgcgtccga acaaagagag agagagagag agtgttatgt tatgtcttta ttgtcaatta 60

gtaattttct tcgaattaga tgttgtttct ccgtcgaatc gccgtcgtct tctttgtctt 120

cacctctttc tccgccgctc agaactccac gtgtcctctg gacttttccg tccttgaacc 180

gttccggcgt ccgaaacccg atggcgccac cacctgccag tacctcctcc aagggctacg 240

cctcctctac tctcaccatc tccgtcagac gggttccttt ctcccgccac ctgagtctgc 300

tgcttcttgc tgggctgctc tccagtcttc cgtcgccggt ttcctccctc gctttgacgt 360

ccgattcaac tgcggtttcc aanacgccgg tggatttcgc aaggggtgat ggacatcaac 420

caaccaaggt ctcaaattcc aantcccttа accctaaatc ctccctcggc nacaacggcc 480

aatccgctg 489

<210> 3615
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D4

<400> 3615

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attgaattac atcttcttct gatagctgtt ctgatttttt tctgtataca aagtaaattc 120

aaagtggaca aacatcggta ttttaatctc ctctcgataa tgaagtgttt cttgttctct 180

ggtggggata agagagggga acagaagacc cctatttcgg tttcattgac ctctatcttc 240

tctgaccgcg aaataaaccg aagcgggtca gagttcaact ctcgtgatgt ctctgggacg 300

agcacagaat catccatggg gaggaagaac tcgtaccctc cggtgtctac tanagcaaag 360

taatctcaga gagttcagca ttactgatct caantctgca acaaagaact ttagccgatt 420

ctgttatgaa ttgganaaag gcggtttcgg ttgtgtcttc aaggggggcac nattg 475

<210> 3616
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D5

<400> 3616

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tataaagtgg ctctaggtat agctgatggt ctgagttatc ttcataatgc ttgtccaaga 120

aggatcattc accgtgacat caaagcttct aacatattgc tcaaccacga ttacgaagct 180

cagatttcag atttcggact tgcaaaatgg ctcccagaga actggcctca ccatgttgta 240

ttccccattg aaggaacatt cggatatcta gctccagagt atttcatgca cggcattgtt 300

gatgagaaga ttgatgtgtt tgcctttgga gtattgcttc tagagatcat aaccagtcgc 360

cgagctgttg atacagcaaa gcangcaaag cattgttgca tgggcaaaac cttttcttga 420

gaaaaatanc atgggaggac attgtngatt ctccgntaag gaaatatgtt aaaccaac 478

<210> 3617
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D6

<400> 3617

acgcgtccga tcannnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn ccaccaaggc aacagaggag tttgtccttg ttgtttaaga 120

gataaactct ctcgattacc taatactacg tcgtattaca tcgttcacag annnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnngg cggtgaagga tcatcggaga 240

gctggttcga tgtcgatgtc tttcgctgtt agggaagctt taaatggtaa tctgatcgaa 300

gctttaggtg gaggattaat gaaaagcaga tctatggctc atgttcccaa ggattatatt 360

gttanggatt tgacgaaaga agaagacggg gaaattgaat ctacgacggt taagaagaag 420

actgggtttt ggactaantt gctcacctaa agggaaaggc ggtggcn 467

<210> 3618
<211> 472
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-D7

<400> 3618

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agagaaacga gagacaagtg attctttttc ctctaccatt acaaggttgc ataaacccta 120

tgcttcagct agcaaagatc ctttactcaa gaggtttttc gatcaccatc atccacacgc 180

gcttcaacgc gcccaaatct tcagaccatc ctctcttcac tttcttacaa atccgcgacg 240

gcttgtctga atctcagact caatctcgtg atcttttgct tcaactcacg cttctcaaca 300

acaattgtca gatcccattt cgagagtgtt tggctaaact cattaaacct agttcagatt 360

caggaacaga ggataggaaa attanctgtg tgatcgatga ttccggttgg gtttcacaca 420

atccgtggcg gaaagtttaa acctcctcga tttgcctccg tgctaaaagt tc 472

<210> 3619
<211> 543
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-E1

<400> 3619

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agcagagcgt tacgaagaaa tggttgaatt catggagaaa gtcgcgaaag ctgttgacaa 120

agacgaactc accgtcgaag aacgtaatct cctctccgtc gcttacaaaa acgtcatcgg 180

agctcgtcgt gcttcgtgga gaatcatttc atcgatcgaa caaaaggagg agtctcgcgg 240

taacgatgac cacgtttcgt tgatccgtga ctacagaaag caaaatcgaa acggaacttt 300

ctgatatctg tgacggaatc cttaagcttc tcgatacgat tctccgttcc cgctgctgct 360

tctggagatt cgaangtgtt ttatctgaan atgaaaggtg attaacatag gtacttggct 420

gaattcaaat cctggtcaag aagaaggaaa gatgcctgcc ggaacatact ccttactgnc 480

ttacnaannc tggctcaang gataattggc taaattcctg aaattggggt ccaangccaa 540

tcc 543

<210> 3620
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-E11

<400> 3620

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gcactcacca tatcgaaggt tttgctttcg atatgttcat tgttaacgga cccaaaccca 120

gatgatccat tggttccaga gattgctcac atgtacaaaa ccgatagagc aaagtatgag 180

tctactgcga gaagctggac tcagaaatat gcaatgggat gaaagtttgt gtcctttgat 240

ccctcacaga ctcggtttta nnnnnnnnnn nnnnnnnnnn nnnnnngact tcttcacata 300

gggatcttcc atgaaataag ttagattcct atgttttatc atctctttgt ttgaaacctc 360

tttaatctca aacaaaaaca ttacttcacc tctttattat ccatatgttc cctatctttg 420

tttctatgcc ttttcccaaa aaattataag aaaaattatt ta 462

<210> 3621
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B7

<400> 3621

acgcgtccgc atttctctct gactacttca tttcctcttc ccaacagtta aaaaaagttc 60

tgattcgatt caagccaaga tccacgtata aagatatgtt catgcgtaga ggtttggtat 120

acaacaatat atacatataa tagtttgtcg ttatgcctgg ctccctgtat gccacgagtg 180

gataccgatt ttggttttaa aatcggctgc cggtggcgta caaggagtca agcatgacca 240

gaagcatatg gtaactcaat tgcatctaca actaaatatg aaatatctag ttatgtatat 300

ggtttgtgtt ctataagatg ttttcttcga attttgattt ttgtgttcat ttgaataagc 360

aaacagaaat aaaaccaagt tttgtagttt tttgctttct ttctgatttg gtccaatggc 420

tttgattcag gtttgagttg atcctttaaa ttcatattga nttaaatttg a 471

<210> 3622
<211> 484
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A2

<400> 3622

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tagggtttct tttctctttc tgcgatcgat ctctgaaaac tcataactgt tgtttaatcg 120

tgaagatggc atcaaacgga tctttctctg ctcagagaaa cgcaaacgct agaacaacga 180

tgaagagaag aagcgacaat cgcggttacg gtggcggaat cggaggttat caagaggaga 240

cgaaccgtta cgcgccgccg caaaaacgtt tcagatcaca agcgcaacag caattccgat 300

ctggtcataa tcctctgtat catcatcatg gtaagtaata ataataacgt gtctagggtt 360

tcttctcaat catataacaa ttgcggtgtt gatgtgattg gttccaaatc aagttttgcn 420

attacgttac aatgantcca acacaacaaa ttacangaaa cccttggttg ccgggtaagg 480

aanc 484

<210> 3623
<211> 531
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A3

<400> 3623

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ntaagatctg aaancatact catggacnta gatggccatg tgatgttaac tgattttggt 120

ttagcaaaag aatttgaaga aaacacaaga tcaaactcca tgtgtgggac tacggagtat 180

atggcccctg agattgttcg tggaaaagga catgataagg ctgccgactg gtggagtgta 240

ggaatccttc tgtatgagat gctcactgga aagccgccgt ttctcgggag caaaggaaag 300

atacagcaga aaatcgttaa ggacaagatc aagcttccac agtttctgtc taatgaagct 360

catgccttgc tgaaagggct gctgcaaaaa gagccagaaa ggagactggg aagtggaccg 420

agcggagcag aggagataaa aaaacacaaa tggttcaaag gcgataaact ggaagaaact 480

gganggctag agaaatncaa ccaaatttca agcccggcgg tttccgggaa a 531

<210> 3624
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A4

<400> 3624

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angcattctc tcaagtgaca acgaaggcan cttcagagga cctttgacac tctctctcaa 120

acaaggatct ttgttggtga tgagagggaa cagtgcagac atggcaagac atgtaatgtg 180

tccatcacaa tgacaaaaga agtaagcatc acattctttc gtattcgacc ttgacacata 240

tcatagccat tcacaaccca gcagtcctcg caacgacggt gtcatgacaa tgtggcnncc 300

ctaccaantg acaacaactc caatcctcaa ttgggtaaga tnattcaant tgacatgngt 360

gccaaaaact tggagtcccn acgtcctcca attggtcang attgnaccaa caaccgggtt 420

caaccaangg attttcncaa tttcccaagg ttaatgggaa acccgttggg gggnaccggg 480

gnttttccta acaaaggggc cccgg 505

<210> 3625
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A5

<400> 3625

nccgagagat cttaaacctg aaaacatact catggacgta gatggccatg tgatgttaac 60

tgattttggt ttagcaaaag aatttgaaga aaacacaaga tcaaactcca tgtgtgggac 120

tacggagtat atggcccctg agattgttcg tggaaaagga catgataagg ctgccgactg 180

gtggagtgta ggaatccttc tgtatgagat gctcactgga aagccgccgt ttctcgggag 240

caaaggaaag atacagcaga aaatcgttaa ggacaagatc aagcttccac agtttctgtc 300

taatgaagct catgccttgc tgaaagggct gctgcaaaaa gagccagaaa ggagactggg 360

aagtggaccg agcggagcag aggagataaa aaaacacaaa tggttcaagg cgataaactg 420

gaagaagctg ggaggctaaa gaagtncaac caagtttcaa gccngcggtt tccg 474

<210> 3626
<211> 482
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A6

<400> 3626

acgcgtccgg ctacgacaaa gaaggacacc cagtttgtta caatgcttat ggtgtgttta 60

aagagaaaga gatgtatgag agagtgtttg gtgatgaaga gaagcttaac aagtttctga 120

gatggagagt tcaggttttg gagagaggtg ttaaaatgct tcattttaaa cctggtggtg 180

ttaattccat tattcaagtt acagatctta aagatatgcc taagagagag cttagagttg 240

cttctaatca gatcctctct ctttttcaag ataattaccc tgaattggtt gctactaaga 300

tattcataaa cgtgccttgg gtacttcagt gtgatctact caatgttcag cccattcctg 360

actcagagaa caaagagcaa gtttgtgatg tccaaagaag gcaatgcagc agaaacactc 420

tacaagttca ttangccaga aagatatccc ggtgcaatac ngtgggtcct aaccctccca 480

ac 482

<210> 3627
<211> 513
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B1

<400> 3627

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnttat ccttatccga taaacccaca aataaagaca gactcttttg ttctttaaac 180

agagattgta aatccagagc cgccggaaaa tacaaccgcc ggtttactct caggattagt 240

tgatattatt cgattttaaa aatcagtagg aagaagatga agtacgtgct tgtaacagga 300

ggtgttgtga gtggattagg gaaaggagta acagcaagta gtattgggtg ttctccttaa 360

agcttgtggt cttcgagtta ctctatcaaa atcgattctt atctgaacac tgatgcctgg 420

aactaagtct ccaatttgaa cacggtgaaa tttttgtcct ggacgatggt ggtgaaggtg 480

gtcntggatc ttgggaacta caaaaggttc caa 513

<210> 3628
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B10

<400> 3628

nacaggtccg gaaactcccg ggtcgacnca cgcgtccgcc cacgcgtcng atntggtgta 60

cctgttcagt tacagaggtt ctggatttgg gcaaagagac aaaaccatac ctatcgtccc 120

aatcgccccc ttacgcctca agaggaatta caaccggttg gacaaataag ggaagcatct 180

aataaggcaa acactgcaga actcaagctt tttttggaag tagagcacct ggatttacgt 240

cctattcctc ctcctgaaaa atcaaaagaa gatattcttc ttttcttcaa gctttatgac 300

cccgagaagg cagtattaag ctatgctggc aggctgatgg tgaaaagttc cagtaagcct 360

atggatataa ctggaaaact gaatgaaatg gttggctttg ctcctgatga agaaatagaa 420

ctttttgagg aaatcaagtt tgaaccttgt gttatgtgcg aacacttgga taagaaaact 480

tcattcagat tgtgt 495

<210> 3629
<211> 492
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B11

<400> 3629

nggccgcaaa ggtccggaac tcncgggtcg acccacgcgt ccgcntttaa ntgaaatcgg 60

tttcgagaga cagtgagacg aanatgttaa ggattttggg gagaagagtt gtttcagctt 120

cgaaagagct tactagtatt caacaatggc ggatccgacc aggaaccgat tctcgtcccg 180

atccttttcg aactttccgg ggactacaaa agggtttctg cgtgggcatt ttaccggacg 240

gagtcgacag aaattcggag gctttttcta gcaattcgat cgccatggaa gggatcttat 300

cggagcttcg ttcccatatc aaaanggtat tggccggang tggagaggaa gcggttaaga 360

ggaacagaag cagaaacaag cttttgccta nanaanggat gatcggctac ttgatcctgg 420

ttcttccttt ttggaactct ctcagcttgc aggacatgaa attgtatgag gagccctttg 480

ccctcaaggt gg 492

<210> 3630
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B2

<400> 3630

acgcctccgg gancatttgn ttcaccctca tcaggtgtga tgcctgattc caccaatcct 60

actatgagtg tgaatgccca aggccatgaa atccaaaatg gtggtggaac aacaagccag 120

ttctcatcgg ctttgtgggc attaatggac tcaatacctt caacgccagc ctctgcgtgt 180

gagggtcccc ttaaccgaac ctttgtacgt atgtctagct tcagccgtat gangttcaat 240

ggaaaggcta atggaacgcc agtgagtact accatagcaa agaanggtat taganacaga 300

ngttttcttc tattaacaat ccgtgggtgc tttgtgtgcc atccttcctg gggtgttggt 360

anccacaatt ccgagtctca aggttagaaa gtcctcccct tgaaangact aattggtggg 420

ttccccttgg gaactcctta actaactggg taagtttaag aangaagaaa cccaggattc 480

cacattaatt gttcaatggg gaattattga 510

<210> 3631
<211> 524
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B4

<400> 3631

gcctgtccct accgctccgg aaattcccgn gtcgacccac gcgtccgggg anctctcatg 60

ctctacgtat ccaagatgat tccagcctct gacaagggta gattctttgc cttcggtcgt 120

gtctttgctg gtaaggtttc tactggtatg aaggtcagaa tcatgggtcc caactatatc 180

cctggtgaga agaaggatct gtacactaag agtgttcaga ggactgtcat ttggatgggt 240

aagaggcaag agacagtgga ggatgtccct tgtggtaaca ctgttgctat ggttgggctg 300

gatcagttca tcaccaagaa tgctacattg actaatgaga aggaagttga tgctcaaccc 360

attcgtgcta tgaagttttc tgtgtctcct gttgttcgtg ttgctgttca gtgtaangtt 420

gcntctgacc ttcccaagtt ggntnanggt ctcaagaagt tggncaaatc cgattctaan 480

ggttgtgtgt acaatgggag gaacaaggtg ancacattgt tgcc 524

<210> 3632
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B5

<400> 3632

anactcgcgg gtcgacacan gcntcnnann agagtcacta tcatctctta acaacacaac 60

acaactttga atttttcacc ctcactttca tttatctcaa atctccttcc agaaaagcga 120

gggaatagtg ttgttgagag gtttgtgatt tccttttgaa aaaatgatgg cttgtggctt 180

aagcaagagc cttggcttgt cttcctcctt gaagaagcaa caaggcatag tgagtatcct 240

tggtggcatt tcgtcgaaca cttcatctgc accttcactt aggcgaactt tctccgccga 300

tttgtcctcc aagacttggg tttcccaaaa tgggttttct cctatgaaga gaatctcttc 360

ctcctgagaa gcttcgtcct gacgaagaan atcagnanga angaatcaan nttcgggant 420

cnatntcctg gggcaacaga ttcaacaang acaaggaacg ataagcnnga agngaaggan 480

cagatcaagc cggggtcaat tccgga 506

<210> 3633
<211> 528
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-B6

<400> 3633

aactgtttcc cctggcccta ccnagtccgg aattcncgcg gtcgacccac gcgtccgccc 60

acgcgtccga tttggtgtac ctgttcagtt acagaggttc tggatttggg caaagagaca 120

aaaccatacc tatcgtccca atcgcccccc tacgcctcaa gaggaattac aaccggttgg 180

acaaataagg gaagcatcta ataaggcaaa cactgcagaa ctcaagcttt ttttggaagt 240

agagcacctg gatttacgtc ctattcctcc tcctgaaaaa tcaaaagaag atattcctcc 300

tttccttcaa gcctttatgg accccgaaga agggaantat taaccaatnc cnggcaaggc 360

tggatggtga aaagttccaa gttaagccta atgggatata actgggaaaa actgattgaa 420

aatggttggc tttgctccgg atgaaagaaa ttanaacttt tganggaaat caagnttgga 480

acctggggta agttgcaaaa ccttgggtaa aaaaacntca atcaaaat 528

<210> 3634
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A11

<400> 3634

gtaaangtcc ggaaagtccc gggtcgacnc acgcgtccgg ctctctttct ggtacactca 60

cctaccatta ctataagtct gaaagagtga ttgaaaccca cctcgaaaaa tctatccttt 120

tttttgtttt ccttctccgg cgaatccccg gggagattgg taatcggtaa tcacggctat 180

ttacgggata aagccacggc ctttgagctt tcatgtccaa cgaaagggtt gtttaatcat 240

aactaatcct ttgcctcacg gaggacgtgg agctctgccg tctgaaggcg gcagtccctc 300

cgatctcctc ttcctcgccg gaggcggttc cacaaatagc cactaaccct aacccttttt 360

ctaattaggt ttttagttct taagagtcct gtattaatct gttatttcga gattataata 420

tttgtgagca atgttgttga agatnaaaag agtccaacag ttgtatcgaa ttatcaaaaa 480

gatgaga 487

<210> 3635
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-E8

<400> 3635

acgcgtccga gaacaaccaa atttgtttcc gtcttctgct aacatatcct ctttttcatc 60

tgggaaccct aatttcttga ctaacttagg gttttattta tccatttgag atactctgta 120

attgaaaggt tgaattttta gaagagacat gggaggttcg tcggagacaa agatcttaca 180

agaactcata ctttacgcgg cgagcgctgc tttcagctgc ttggttctct ttgcgggtct 240

tcgtcatctc gatcctaatc gtgaggcttc taaaaaagct ctcgagcata agaaggaaat 300

ctctaaacgt ttgggtcgtc ctcttgttca gaccaaatcc atacgangaa tgtaattgca 360

tgtgatgttg ataaatccaa gaaccacatt tgatgttgga gtttgggttc aattggaggg 420

gttggagacn tccaagncag gctttgtatg aancttgtga tttaaccacg gaaaaaga 478

<210> 3636
<211> 476
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-E9

<400> 3636

acgcgtccgg aaaggacgaa gaagagaaga agaagaacct tacaattgct tttgtaaata 60

ttgtaggtag tttaaggacg tcacttccta catacatgga tttatgtgga actcagatgc 120

tgcgcctctc atcgcctcat ttcaaaaccc ttcatttggt gaggcatgca caaggagtcc 180

acaatatagc attagaanag aagggagaga aacctgaatc agaaaagctt tttgacgccc 240

acctttctcc aaagggtttg caacaggttt cggaaaggcg canccaaatc cttgaatcag 300

gattacttan cactgtcgag ttagtgataa cctcnccgct gtgcangagc antggannct 360

tcaataggaa tatttagggg gacaaangat atgtaaatat atcccgangg actttgcaaa 420

agcctaacaa cttnccctcc aattngtagc anctttgaga ttctgttnaa gaacgc 476

<210> 3637
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-F11

<400> 3637

acgcgtccga tacnctcttt tgatggctgg aggagagaaa agaagaggac ttagtaaatc 60

ttgtgctctt cccatagtga ttgctgggat agagagatat gcattcaaag gagttgcatc 120

aaacttagtg acatatctaa ctgatgtagt gaagatgagc aattcaagag cagccacgac 180

tgtgaacact tggagtggct tcactttcat gttgcctctc ttctctgctc cttttgccga 240

ttcttattgg gacagattct tcaccatcct tgcttcttct tctctctact ttgtgggtct 300

agtgggattg acatttacgg catttgctgg gtcacgttcg actacanaaa caatctctcc 360

tttaacttcc ccacaactca cttttcctcc gtcgctccta ggccttgggg tccttaaacc 420

ccatcctcta caagnccttg gtggctgnac aagctccgac tacgaacctt t 471

<210> 3638
<211> 531
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-F4

<400> 3638

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nnnnnnnnnn nnnnnnnnnn nnnnnnattc atctaaaaca atttcgatcc atttacacat 120

aaatatatgt aactggccgt agaagaaaca cattgaagga agannnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn tgcggacatt tccagangca gttttccaaa gggctttgtc ctttggnact 300

gcttcttcgg ctttcagcat gaanganccg gtgaangnag aacggcagan ggcccnacga 360

tatnggaaca cattttccca cacctttggg aaaaatcnac cgnatttanc caatggctga 420

tgtccccngt tgattcagtt atcaacctta cnagggaana atgttcaacc tnatngaacg 480

aataatggga aatggnccnc taacagaatt ttcccaattc cttggacccc n 531

<210> 3639
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-F8

<400> 3639

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aattatatat tttgctttgg ttttttttt ttcaccggat cgatcgagaa gagagaaaag 120

ttcatcttct tcttgttctg attgtttgac aagttttacg acaatggcgg tttacggcga 180

gaagaagcat tggtggctcc gcaacaagaa gatcgttgat aaatacatga aagaagcaaa 240

gagtttaata gcgagtcaag atccaaacga cgtgaaatca gctctaaatc ttctggaatc 300

tgcantctct gtatctcctc gttacgaact cgctcncgaa ctcaaagcca gatcccttct 360

ttacctccgt cgatacaaag acgtcgccga tatgcttcag gattacattc ctagtcttaa 420

attagccggc ggcggcgaag attccggtat cngttcatct gagcttt 467

<210> 3640
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-F9

<400> 3640

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gtaattttct tcgaattaga tgttgtttct ccgtcgaatc gccgtcgtct tctttgtctt 120

cacctctttc tccgccgctc agaactccac gtgtcctctg gacttttccg tccttgaacc 180

gttccggcgt ccgaaacccg atggcgccac cacctgccag tacctcctcc aagggctacg 240

cctcctctac tctcaccatc tccgtcagac gggttccttt ctcccgccac ctgagtctgc 300

tgcttcttgc tgggctgctc tccagtcttc cgtcgccggt ttcctccctc gctttgacgt 360

ccgatccacc tgcggtttcc agacgccgtg gatttcgcan gggtgcatgg acatcaccac 420

caggtctcaa ttcgagtccc ttatccctaa ctcctccctc g 461

<210> 3641
<211> 502
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-G1

<400> 3641

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ttaccctgtt ttataaacag aggaagccct aaatttggat tctctattct aaagttttct 120

catttcgcta attttggaga aaaacgattg ttttttttaa tcgtttcttc atttctgatt 180

catttttctt ggtttatgat ctgttcaagt aaaggaacaa tcttaatcgc tagaggtaaa 240

aattcaaata caatccctag attaccccta aaagggtcat ccacaaatta cgcgaatcga 300

attcaaattc gaaacccaat cagtgtcaaa actttccggc gatcatcttc atcgtcaatg 360

gcggtggaaa caatgtcgat gggatcagat tcatcaactt tgattctaac atcangagca 420

aagcggtcgc gttanggtac ccntcctcga tgccaagagc ttaaagcgtc tcgttaagan 480

taancaatcg ttgaatcctt tc 502

<210> 3642
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-083-Q1-E1-G11

<400> 3642

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ggcggctaca cgacggttat cgatgtcatt gactgtaccg gagttcgatt tcagattgac 120

gccacagttt ggtttctcac agtcaccgat cggggagcgt aatttcgcgg atgttgataa 180

tctggagaac tgtattaagt atttgaatca gagcttagtc acctctggat tctctgcttc 240

gcttgacctc ttcgctaccg atcctgtttc gattgctaga acttgcaatt gcgtatacgc 300

tttgattcaa cagaggcaac gagatgtgga atttagagaa tctgctaatg atcagagaca 360

acgactttta tccgatatgg gcgagactcg aagcaaaagt tgaaaggctt gagactcaat 420

tggcaagcta aagaaaggga aacttggttc ggtgacaaga acg 463

<210> 3643
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-G3

<400> 3643

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cgtcactcnt cactcaataa aaaagctact gcttcaaagc tctacttcnt caatttactc 120

tcattcgttt gcgttgatgt agcaaaacaa aaaccaaaat ggttcccgtc tcgttctgct 180

tcntctttct ccttctcttg ctctctgctg gagagagttc atcgcantta gtttctggtc 240

cacacatcac cgatgttaac atactcntac ctcccaagat gaagaatccg gttgagtatc 300

gccttcaang aagtgatggc tgcttcaaat ggtcatggga tcatcatgat attctatcaa 360

gtcacacctg agtttaattc gagcagtcat tgttcgacca gcgcgcgtct caaatcgatt 420

tctccggtat agtggtagaa aaggagactg cagtttatgc cactgatata cnagactggg 480

atgggtgatt cgctgcaang tcttt 505

<210> 3644
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-H5

<400> 3644

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taggagtggc tctgctccac cgactgttga tggttctgtt agtgctgctg gagggctttt 180

tagcggcgga ggtggggctc ctttttgga gtttggtgga ggcaacaagg gtaatgggtt 240

tggtggcgat gatgangagt ttaggaaaga tccggcttac ttgtcttatt actatgctaa 300

tatgaagttg aatccgaggt tgccaccgcc tttgatgtct anggaggatt tgagggttgc 360

tcagaggctt aaagggagta ataaatgttt tangtgggtg ttggggataa ngaaggaaag 420

ttaattgata gtcaaatctt taanctctaa tgccacctgg ttttgatcaa 470

<210> 3645
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-H6

<400> 3645

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ttttaatggc gtcgtgtgat gacgatttct ctctacttgg agacgatcag tcaaacccta 180

atcaacatca ccaccaccac caagttcttc atcacacgcc ctacgctcct agacgattca 240

acccgaaacc atcgaatcag atccttttac cgcatcacca gaggaacggc gacgaggacg 300

acgagaacga tgtcgttgta gaagcgtctt ctgctttcca cggtcacggt gttaatcctt 360

tcacggcgga cgaaaattcg aatccgtatg atgataataa cgcagctgta gacgaagacg 420

aaagacgaaa gatctcggtg ccaacagatt tagaatcgga ggtgttcgtg ttganaaana 480

gggaagagtc agggaggaac taagtna 507

<210> 3646
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E2-A1

<400> 3646

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cacaaacaag ttctttctgc tgctcttcat ctttcacaag gttgtggcta ttgggtttgt 120

aggcttcctt gtcttcagag gcgttcaagg tctaattgga tcaaatggta gcgtcaaaag 180

gaaagagaaa aagatcctca gattcttact tccacaagtc gaagctgcat cgctcttgag 240

catcattctt gcattccttt ggcaaatggc attcaggatt tggcctgatt tcatgattca 300

cttcatactt tggagtacgt ttttgatgtc tttatcctca aggaatcctc ctactgtgtt 360

tccagatgcc agccactgat gctgttgggg tttgcctcaa ttgccttctc aattgggcaa 420

ttggttaana atgccttgct gggtcactcc gtaanaatca agtttcngtt ccnaaagatt 480

ttgggtcaaa gtccg 495

<210> 3647
<211> 473
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-083-Q1-E1-E6

<400> 3647

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tggatgtttt gggcaagaaa cagagagaaa cacgttaatt tgagagtttg tcattgaata 120

tttggtttgc aatggaaaga gattttctgg gtttgagcga caagcagtat ctaagtaata 180

acgttaagca tgaggttaac gatgatgctg tcgaagaacg agggttaagt acgaaggcag 240

ctagagaatg ggggaagtca aaggtttttg ctacttcaag tttcatgcct tcttcagatt 300

tccaggaggc taaggcgttt ccgggtgcat accaagtggg ggatnagttt ctgcgggcaa 360

tgttttccgc agatgccaan ttggtggtgc gtttcaaaaa cgcgacgccg cntttaataa 420

ggcgggtcaa ttcccttaac aactcaaccc ttccccttgt tccaacgagt ggc 473

<210> 3648
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C12

<400> 3648

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aatacccaga aatctcacgg ttccgaggag tgggtttttg ggggttaggg ttttcgagag 120

atgttgaatg tcaggttcat tgatgaatct gttttctctc tgcttcaagc cattcgggca 180

cgtctgtgat aattccgaag ctggatcggg tggtggtggt ggcgtttctg gtggaaccgg 240

cggtgaaggc aaagacggat tgctttggtt ccgtgatctc ggtaaatatt gcggcggaga 300

tttctccatg gctgtgattc aagccaatca ggttcttgaa gatcagagcc aaggtcgaat 360

ccggtaattt tgggactttt gttggtgttt acgaaggtca tgggtggtcc tgaaactgct 420

cnttaagtcn ggtgatnaat ccccttaanc aatttcnaag cttaagggta agcaa 475

<210> 3649
<211> 489
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C2

<400> 3649

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actcttgtca ggatttttga ttctctcntt ggntttctcg gaaaaatgtc tgcgatactc 120

caaggagctg gagctgcaac ggctctctcg ccgtttaatt ctatcgattc caacaaactc 180

gttgctcctt ctcnctcttc tctttcagtg aggagcaaga gatacattgt tgccggatct 240

gatagtaaaa gctttggttc tagcctcgta nctcgtcgct ctgaaccgtt gataccaaat 300

gctgttacna cgaaatgcgg acactgctgc cagctctact tcaatcaaag cctgggacat 360

tgagctatca acttttcgan ggctcttcaa gaangtccta nnaagaaaga agatggacaa 420

gagattcaca atgttatgtt gtcaagggtg aaanatgtna gggcaattac gganggctca 480

atacaaagt 489

<210> 3650
<211> 527
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C4

<400> 3650

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atctcctctg tttaagcaaa gcacttttct aaaatcccac aggagaagag agatcggaag 120

agatgacgaa gctggcggaa aaatcgggaa gcagaccacc gtgggtggga ttagcggcag 180

ccgcatgggt tcaggtctcg gcgggaagtg gttcgacgtt cccgctttac tcctccgctc 240

tcaaatcggt tttgggtttt agccagcagc aggtcacgat ccttggcgtt gcttgtgatt 300

tgggtgaaaa catgggtctt cttcctggat acgccagtaa caagcttcct ccatggtcga 360

tgcttctcat cggagcttcc tcntgtttcc tcggcttcgg gcgttccttg ggtctccgtc 420

aagccaaatc cttccttggg cttgcccttt tggctgcttt ttggtaactc caaccttanc 480

tancaaatag caactccgtg ggttccggta caancatctc cttgtca 527

<210> 3651
<211> 473
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C6

<400> 3651

acgcgtccga gctctggtat ctaacaatca tgaggcgtac tcaagttgtc tacctaaatg 60

tgtcaaaata ttagaacgcc ttgctaggaa ccaggatgtt cctcaggagt acacatacta 120

tggcatccca tctccttggc tccaggttaa ggcaatgagg gctcttcaat attttccaac 180

cattgaagat cccagtacca gaaaagctct ctttgaggtc cttcagcgaa tattgatggg 240

cacagatgtt gtgaaaaatg tgaataaaaa caatgcgtct catgccgtgc tgtttgaagc 300

tctctccctg gtcatngcan cttgatgctg agaaggaaat gatgtcacag tgtgtttgct 360

cttcttggca aagttaattt ctgtccgtta gcccaacatc agatatctag ggcttggaaa 420

atatgacgcg aatgctgatg gtcacaagat gttcaagata tcataaagaa gca 473

<210> 3652
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C7

<400> 3652

ggggtttttc attccagaat agccctaatc caaattcgaa atctttcttc tgattttgat 60

ctttccgatc atgtcatcgg tctgtgttaa cgaagcatta accgatgacg agctgagatg 120

ggtattgtcg agactagaca gtgataaaga taaggaagtg tttggtttgg tctgcaagag 180

gtggctaaat ctgcagagta ccgaccggaa gaagctagcg gcacgtgctg gtccacatat 240

gctccgccgt ctcgcttcta ggttcactca aatcgtcgaa ttggatttgt ctcagtcaat 300

ttctaaggtc cttttatcca ggagttactg attctgacct cgctgtnatc tctgagggat 360

tcaaagtttc tcagagttct taaatcttca caactgtaaa ggtattacag atactggatt 420

ggcctcaatt ggaaggtgtc cttccttaac tg 452

<210> 3653
<211> 516
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C8

<400> 3653

aactggttcn cctggccgta cnagtccgga aattcccggg tcgacccacg cgtccgattc 60

gcgcgacaca tagagtgtag agacgctttc acgagcgttt ccgacgtcgg actttcagct 120

catcatctcc acatctttaa cggtaaagat taatcatgcc tgaaattcat ttgggtgctc 180

atacaataag atcccatgga gtaacagtcg cgaggttcca catgcatgac tggctcattc 240

ttctgctgct aatagtcatt gaaattgttc ttaatgtcat cgaacccttt catcgttttg 300

ttggagaaga tatgctcact gatctcagat accctctgca ggacaacaca attcctttct 360

gggctgtccc gttgatangc tgttgtgcta ccttttgctg tcatttgtgt ttactacttc 420

attagaaatg atgtttatga cctgcatcat gcaatactag ggcttttgtt ctctgtactt 480

ataaccggtg tcataaccga tgctataaag gacgct 516

<210> 3654
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C9

<400> 3654

acgcgtccga gaaaagtctg ttttttttatt gagatttttt tgtttctata gattctatcg 60

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atgggcaagt cttagatctg gatactgcag tgaaannnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnagaaat tggatctgaa gaagatgata aaggagctag 240

atttacaaga tataccttct gttttcattt gtcctatctc cttagagccg atgcaagatc 300

ctgtgacttt gtgtactggt caaacctatg aaaggttaaa cattcacaaa tggtttaacc 360

taggtcactt gacttgtcct actacaatgc aagagctttg ggaagatacg gtaactccct 420

aataaaactc ttcatcattt gatctatact tgggttctct cagaa 465

<210> 3655
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-D11

<400> 3655

taccggtccc ggaattcccg gntcgaccca cgcgtccgac cgtccccttg ttatacacat 60

ttaatgggag tttacactag ggacagtgaa atgagttctt cattgacttt gacttgcact 120

gacggtgctc ctgccttaaa acaaagancc atcggtctcg ctaacaccca cttgtcgatt 180

ccctcgcagc tcatctccat gtaccagctt cctcataaga tagctctttg tttgccttcc 240

accgaacgaa gtcagtctca taatggtgac ctttggatcg gtaaagggga atattattat 300

ctgccttacg ataaagatgt ctctaagatc tttgcctcca cgcctctgat cggtaatggc 360

aagtccggcg agtacttaat cgatgtgaag tccatccaaa tcggtgcaaa gaccgttcct 420

ataccctatg gagccacaaa gatcagcact ttggctccct tacaccgtat tccaaacttt 480

ccctttaca agggctctg 499

<210> 3656
<211> 529
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-D2

<400> 3656

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tacaggttca aagattctta nccntccggg gagttttggt angaaaaaga cggagtcaca 120

gccaccgtca cccctgagta caangaacta tcagaatggt gctgctaata ccccaaaggt 180

tcgtcaatca agaccttcac cagtagctnt gaagaagacg ccagttccan gaagcgaaca 240

aatctttaca ctctttatcg tctgatggaa tctctattga cctcaacggt cagaatgatt 300

cttttaacca taagcangag aagccatcgc gaactgttcc tctatcccca anacagcatg 360

gctgatcntg ggaaaccctt atnancaacg ancctccaag gggcattgaa cacanntggc 420

aagaattnac acagccaagt gagattaagt ttgtttaatg ttgttaagcc cctccannnn 480

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnncn 529

<210> 3657
<211> 538
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-D3

<400> 3657

aactggttcc ctgtccgtac ngccccggaa ttcccgangt cgacccacgc ntccgtgaca 60

acattaggaa ctgtgtatac cgaaagaagt cgcgtcgcgg atcttctaac tatatggaga 120

aacaaataca gtttacagga atacttagca ataaagctca agaaaatcca gacttttca 180

actggaatcg agttaagctt cgttactgcg atggtggttc cttcagtgga gatagtcaga 240

acaaggctgc acggcttcag tttagaggag agaagatatg gagagccgca atggacgatt 300

tgaaggcaaa gggaatgcga aatgcgaaac aggcacttct atctggttgc tctgcaggtg 360

gtctagcagt tattttacgc tgttacgaaa ttcagaaacc ttgttttcct gggatgggac 420

caagagttaa atgccttaaa gttgatgcaa ggcttgttcc ttgggacacg ccctgatgtt 480

atcccgggtg ggacacacta taaaggaant ttatataacc ggcgnttgtg caagttgc 538

<210> 3658
<211> 510
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-D4

<400> 3658

gtacgnctcc ggaattcccg aggtcgaccc acgcgtccgt acagcttttg ttacgagtga 60

cntgttntca gcacaaaacn aangtcagct caggcgaaga acagatggct cgtaccaagc 120

aaaccgctcg taagtccacc ggaggtaaag ctccaaggaa gcaacttgnt actaaggctg 180

ctcgtanatc tgcaccaact actggtggag tnaaganacc acatcnttac cgtcctggaa 240

ctgttgctct ccgtgaaatc cgtaagtacc agaatagtac tgagttgctt accatgaaac 300

tgccatttca gangctantc cgtgagattg ctcaanattt caagactgat ttgcgtttcc 360

atagccatgc tgtcttanct ctccangaag ctgcagaagc atatcttgtt ggtcncattg 420

aagacantaa actttgtgcc aatcatgcca agcgtntnac caattaatgc ccaaagnnca 480

tcaagctcgc tccgtcgtat cagatggtga 510

<210> 3659
<211> 518
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-D6

<400> 3659

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cacgcgtccg cggacgcgtg ggttcatcaa tccctcctgc taccgcgaga gagtaacaac 120

tcaccggacg tttcaaatcc atcctccgat aactatattc gtttcgttag atctagatct 180

gagcgtcggt gagagatttt ctggatctgt gatacgttcc aggaaacatg gcgacgatga 240

aaagtttgat aggtctgata aacaaaatcc agagggcgtg tactgtcctc ggagatcatg 300

gcggtgaagg aatgtcgctt tgggaagctc tcccaaccgt cgctgtcgtt ggtggccaga 360

gttccggaaa atcttcagtt ctagaaagtg ttgtgggaag agattttctg cctcgtggat 420

ctggtatcgt tacaaggagg ccattggtgt tgcaacntca taagactgan gacgggacaa 480

ctgagtacgc tgagtttcct catgctccta anaagaga 518

<210> 3660
<211> 467
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-C11

<400> 3660

acgcgtcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnngaggat ccacatcgtg tggtactgct ggagctctat 240

acgcnttgat agccgtagta actggttgtg catgtatata ctcatgtttc atccgtggaa 300

anatgagagc tcactattaa tatnagaang agatgattgt actgattgcc ttanacattt 360

ctgctgttga gctttgttct ttgacccaac antaccgtga nctcaagcac cgcggttacg 420

atatgaagtc ttggatgggc ggggaacgtg gagaagacac cacaatc 467

<210> 3661
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A10

<400> 3661

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tacgaagaag caaagtctgt cttagccttc tcaatacctg gacaggcagg gganatgaag 120

tctggggatc ccaaatcatc tagcatcctt caagttcttg tttcactcca nggattggtg 180

ttgaattcaa agccttattt caatgaagcc gggtatgata agcangtcgg aactgcggaa 240

ggagaaaaaa aactcactgg gatacaacga gaatactttc ttgctaaatt gtaaaaccat 300

gatgtatctt atgcggaaac caccanaggg attttgaaga actcatcaaa gatcatttca 360

agaaaacgcg ggatattaca ttttgaangc atgtgacgcc tacatganag gatatctcat 420

angttcctca ccaaaagatg cctcngttat cgatgaacgc agcaaccgct aattcaactt 480

cagttgggtt taagcntaag ctggc 505

<210> 3662
<211> 477
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A12

<400> 3662

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gatctctcca ccgctcttaa cgaggaggat cgtgccgggc ttgttaatgc tcttaagaac 120

aagttgcaga atttggctgg acaacactct gatgtccttg aaaacttgac tccaccagtc 180

aggaagcgtg tcgagtttct aagagagatt cagaaccaat atgatgagat ggaagcaaaa 240

ttctttgagg agagagcagc tcttgaagct aagtatcaaa agttatatca gcctttatat 300

accaagcgat atgagattgt gaatggtgtg gtcgaagttg aaggtgcagc tgaagaagta 360

aaatccgaac aaggagaaag ataaatcagc tgaagagaaa ggagtancaa atttcctggc 420

ttaatgcatt gaaagaacaa tgaaantaac tgcgggaaga aataactgag cgagatt 477

<210> 3663
<211> 528
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A2

<400> 3663

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aactactctt tccaaaagca attttaaatg gtgtcatttt gcggtagaag gttcgccttc 120

ttgattatct ttctctttgc agcacaatat gagcgtgtct acgctggtag ctttcacaag 180

gacgttcaga tacattgggg tgatggccgt ggaaaaattc tcgacaatgt cggaaatctt 240

ctttctctct cgctcgacaa attctctggt tccggttttc agtcccatca agagtttctt 300

tatggcaaag tagaggttca aatgaaactt gtacctgggt aactctgctg gaacaagtga 360

caacattcta tctaaaatct ccctggaaac tacatgggna tgaaataaaa ttttgagttc 420

ctggggaaaa cataagtggg tcatccatat acccntcata ctaaatgttt acacaaaaan 480

ggcacaagga gaacaaagga acaacaagtt tcatctatgg gtttgacc 528

<210> 3664
<211> 512
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A3

<400> 3664

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cggtcttttg ggacatcagt atgtgtctgg ttctcccttg ctttgatcct cgtcgggtcc 180

gtccgtgtat taaacgggtt ttggagaatt ctcttgtcct ctcaacatca ctgccgttgg 240

cgtactaaaa gacgtccaga atgacatcct gagatgagtc tattccagtg gaatcgctct 300

tactaacgtc ccctaaggtt ctatggacat tttggntcnt atttatagat ttacccgtga 360

ggatccacct ccagctaata taatggtcat aacccgattc ggaacctggg tctttttgac 420

ntcctacana tgatgggata caaccttctg cagcccgttt ccatataaat cctttcaaaa 480

acttcntcct ggcaagattc aangggcact tg 512

<210> 3665
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A5

<400> 3665

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tagtgaagga cgaaccgaac taattgataa ggtgggagct gggtatcttg atcatttgat 120

tgtggaaaga aaatatgctg aagcggcatc tttatgcccc aaattgttac gaggatctgc 180

ttcagcctgg gagaggtggg ttttccattt tgctcaacta cgccagctgc ctgttcttgt 240

cccatatatg cctacggata acccaaggct taaggatact gtgtatgagg ttgctctagt 300

tgcactaagc aaccaatccc tcataccaca aggagctttt gtcagcggtt aaatcttggc 360

cacgttctgt atattctgct ttgactgtta tctcagcaat agancctcaa ctgaacacat 420

cctcaatgac agatgccctc aaagangcgc tggcaanaac tgttatgtaa 470

<210> 3666
<211> 523
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A6

<400> 3666

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accaatccca agatctgaat ctcaacctaa acctcagatt catcatcatg gcttcttctt 120

ctaactacga tggaatcctt ctcggtatgg gtaacccact cctcgatatc tctgccgtcg 180

tcgacgacga atttctcacc aaatacgaca tcaagttgaa caatgcgatt ctcgcggaag 240

acaaacattt gcccatgtat gatgagatga gtancaagtt caatgttgaa tacattgccg 300

gaggtgctac tcagaactca atcaaagtgg ctcagtggat gcttcaaatt cctggggcaa 360

ccaattacat ggggattcat tgggaaagga caaatatgga gagggcatga nagaangatg 420

ctacattgct ggattcttcc tcacagtatc gcctgaatcc attcaagttg gnatccgagc 480

acgctgctgc aaaacaaaaa ggggttcaac aatgnacctt ttc 523

<210> 3667
<211> 524
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-A8

<400> 3667

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attccttgat agaaacaaaa tggaagacaa taaaagaaaa gtattagatg aagaagcgaa 120

agcttctcta gacatatgga agtatgtctt tgggtttgca gatatagcag ctgcaaagtg 180

tgccattgat cttaaaatac cagaagccat tgaaaaccat ccttcttcac agcccgtaac 240

actagccgaa ctctcctccg ccgtctccgc ctctccctcg catctccgcc gtataatgag 300

gtttcttgta caccaaggaa tctttaaaga aatccccaca aaagatggtt tagctacagg 360

ctacgttnat acgccactct ctcgccgttt tgatgatcac aagacgtgat gggaaaatcg 420

ctggctcctt ttgttctcct tcgaaacanc tcncgaagat gctcgctcca atgggtttga 480

gacttagctc agtcgtntct tcgccggtca acggttcaac tcca 524

<210> 3668
<211> 524
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-B1

<400> 3668

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gaganaaaag aagagcgaac aaatnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnacaa caacaacaac aacanaataa 180

tcttgcaaag tttcagtctc aggtggttca cagttaatgc tacttgcaat gatgaatcca 240

tcccaatttc gataacctct actgaggcat ccaaatgttg aacggaaaag aagagcctaa 300

gcagaagaaa ggttggtcag agtcgctgct agaatttcgg tcagggtttg gggaaaagat 360

gaaagttgtg tcgaagaaac gttggaaatc tcttggtcnt cttcatcctg aaaagcanat 420

cagttgcacg gttttgcctt cttttcgaag ttgaagtcan acaaccatgg tccaangccg 480

ttgcaccaat gtatctcant gtttaagacc ttgactccta ttna 524

<210> 3669
<211> 514
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-B10

<400> 3669

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aaatgccaac tgggcangga ttcataaggg agtgtgttcc acttgggatg aagaatgctg 120

tgccttacga agaagagtga aaactgttcc tcggcgccga tatttgttag gcaatccaac 180

ttcaagcttc cttctgattc taaggtaccg atcatcatga tcggtccagg gactggatta 240

gctccattca gaggattcct tcaggaaaga ctagcgttgg tagaatctgg tgttgaactt 300

gggccatcag ttttgttctt tggatgcaga aaccgtngaa tggatttcat ctacgangaa 360

gagctccagc cgattttgtt tgagaagtgg tgctctccgc anagctaagt tgtcgccttc 420

tctcgtgaaa ggacccacca aaagaatacg ttacaagcac aagatgatgg gacaaaggct 480

tctgatatcc tggaataatg atctcctcaa ngga 514

<210> 3670
<211> 520
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-B7

<400> 3670

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ngttcatcat ctccgggccg ataccagtgt gcgtttggat cgggttgaca tgagcctcga 120

cagggtgatt cagcaagtgg gttccatgaa aattggggga ggtggcttga tatcagaggc 180

catgaagaga gccgaggcta tggagattga gaccaacgac gattcggaga aatttggggt 240

tggattggaa ttgggaaagg ttaaggttaa gaagatgatg ttcgaatctc aaggaggggt 300

ttttgggatc agtggaatgg gcggtgttgg taaaaccact cttgccaaag aacttcaacg 360

ggaccatgaa gtccaatgtc actttgagaa ccggattttg tttctgactg tatcacaatc 420

ctccgcttct tgaaggagct gaaggaaact tatatggggt ttccttanct ggttgtgaan 480

ctggaaatcc cngttcctga ctgtaatttt ccgtttgatg 520

<210> 3671
<211> 513
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E2-B9

<400> 3671

antgtttcga acgctcttac cgggccgnaa ttntcgggan cgncccacgc gtccgcaaaa 60

aactcatcca tggcgattct tagttacatc tcagcaacat caaccacacc accaattcct 120

caagatcaat ctcccaattc tcgtctacca accaaaatca ttctacccaa taagaaacct 180

gagaaatggt ccaccggagt tgctcccgga gagtacggtg gtcctccgac taccaccaag 240

ctccgaaagt actggggagg tgaaaaagaa gatcccatta cttccacaga cttaatctgg 300

aacagagatt ttatggatca aatgaagaaa ttgtttgatg atcctaatga ttcttctctc 360

gacccatctc cttcaaagga aaagtcttct gggtttctga gctttagcag agttatgagt 420

cttgacagta tggatgttga tttaagtaaa gagcttgcat cgtcttctaa atccgttgtg 480

aaaaatcgtc ttgacacctc caangtcaag aag 513

<210> 3672
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-H12

<400> 3672

acncacgcgt ccacccacgc gtccgctctc ttcgtcttcc ctcccgagaa agctcaacgg 60

agccctaaga ctggttttat cactctcgcc aacaccaacc acgctttttc tctctttacc 120

tccatttttg tattcgtcac cggagtagat ggatacgaga gaaatcaacg gttttgcctc 180

cgccgcgaga tcgatatctc ttcctacgca gcctaattac agtagcaagc ctgttcagga 240

ggcgttgaaa catttggcat ctataaacct cagagaatta tgtaatgagg caaaagttga 300

gcgatgtcgt gcaacaagag acttagctag ctgtggnaga tttgtgaact atgtgttgaa 360

tccatgtggt catgcctcct tgtgnacaga gtggttgtca ganggtgtga tgtttggtcc 420

naactgta 428

<210> 3673
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-D9

<400> 3673

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ctctctttca ctctctccgt agtctgagac tcgccggaaa agcttgtatt ggcttctctt 120

cgatttctgg cggaagtaag gatatcacgt gagctatgaa gttcctcatg caatccattt 180

ctgggaggaa tcgatctctg gttcgagctc tagttagtcg gcgttacttc gcttcatcgc 240

cggaggaaat cgcaaagaga aattacgcca acgatctgtc ggaatacaac accgctgtca 300

actccgtcac agctcagcgc aggcactatt tgctgaggga tgtttatgat gatatgaagc 360

ttgatggtgt gcaagcctac agctgatatc ttccattcat ttgtcgtggg aacgatgaag 420

ggtgctcggt taagcgatgc gttctttttc cgg 453

<210> 3674
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-E2

<400> 3674

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aggttggatt caacttctgg gtctctacta tgattgttct gcacacatgg tctggtgcgg 120

agagcgtacc angacanttg gatggcgctc atgtcgagtt tctcaggggg attgctaatc 180

ctctgggcat taaggtgagc aacaaaatgg atccctttga gctggttaag ctagtagaaa 240

tcctgaatcc taataacaag cctgggaaga atcactgtaa ttgtgagaat gggtgccgan 300

aacatgagag ttaagcttcc ccacctgatc aagangcagt ccgcagatca ggccagattg 360

tgacatgggt ctgcgatcca atgcatggaa acaccatcaa agcaccttgc g 411

<210> 3675
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-E8

<400> 3675

caactgattt ctacacatcc catgagtgtt tgcttctgcc ttatgaacag tcccttacaa 60

ggttggattc aacttctggt ctctactatg attgttctgc acacatggtc tggtgcggag 120

agcgtaccag acaattggat ggcgctcatg tcgagtttct cagggggatt gctaatcctc 180

tgggcattaa ngtgagcaac aaaatggatc cctttgagct ggttaagcta gtagaaatcc 240

tgaatcctaa taacaagcct ggaagaatca ctgtaattgt gagaatgggt gccgagaaca 300

tgagagttaa gcttccccac ctgatcagag cagtccgcag atcaggccag attgtgacat 360

ngggtctgcg atccaatgcc atngaaacac catc 394

<210> 3676
<211> 455
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-E9

<400> 3676

ccagtaccgg tcaaagaatt cacgggncga cccacgcgtc cnagaatttt ttttcttttt 60

cttatctgaa tgctttcatt ctaattaaag attttaatat atgaatattc gcacgtggat 120

atttgtataa gatatgcatt aatctccgag gctatgtata gttcagaatt tgaagtgaag 180

tttaggagag gaagagagat ggaggtattt agacttggng agctgagaca cctactggtg 240

acggttttct tgtcggggct cgccgaatac ttgataaggc cagtgatgac tgacgtcacc 300

gtagccgcgg tttgctccgg cctagacgat tcatgttctt tggccgtcta tctcaccgga 360

gtacaacaag tgacggtagg aatgggggac aatggtaatt gatgccagtg atcggcaatc 420

tatcgggaca gatattggaa tcaanagcat gctcc 455

<210> 3677
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-F12

<400> 3677

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taaaatactg tgttctttgt ttcttccatc gaaatcgaaa aaagctaaga tcnttgcgtt 120

ttgaaacgat ggcggaacga acataagcat gatgaatctg tgatcgctcc tgagccagct 180

gttgaggttg tggagagaga atcgttgatg ganaagatat cggagaagat ccatcacggt 240

ggtgattctt cttcgtcttc ttcatcttct nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnccctctt ctccttcgtc ttctatgaaa tcgaaagttt accgcttgtt cggacgagag 360

cagcctgttc ataaggttct cggcggtgga aagccgggct ggatatantc atgtggaang 420

aacaagaaga ttctgggggt gnactttggt ggg 453

<210> 3678
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-F2

<400> 3678

aaccttccgg tgccgtctaa aaattcangg gtccgacnna cgcgtccgaa aaacattaag 60

tagcactctt tttcccctcc taatatccct cactccacac tttttcncta tatcttctcc 120

tcaacttgga tatggggtga agccgtagag gtcatgttcg ggaaatgggt tcccggagat 180

tcacaaagcc acatcaccca ctcaaaccct ccactctaac cagcangact gccattggta 240

tgaagaaacc atcgatgatg atctcaagtg gtcttttgcc ctcaacagtg ttctccatca 300

aggaactagt gagtaccaag atattgctct gttggacacc aaacgttttg gaaaggtgct 360

tgtgattgat gggaaaatgc aaagtgctga gagagatgag tttatctacc atgaatgttt 420

gatccanccc gct 433

<210> 3679
<211> 434
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-F6

<400> 3679

ggtgcccggn aaaggtccaa gaattcccgg gctttcaaga aacaaaaaca agataatgat 60

ctcttcagat tcctacactc caacaaatat aagtttcatt agattctttc ttagctagag 120

aatgaaactg attgagaaga cgatgagcat gaaccagttt aggactatgg aggaggagaa 180

gcaagacggt ggtgagcttt tccataccat cgaggtagct aaagttgacc ggaacaacgt 240

gtctcagccg ccgccggctg ctactgcagc actgctagaa gttcccggtg atgaacttaa 300

cctaattcca ccgttgaact tttcgatggt cnataatggt atattccggt ctggattccn 360

ggactcggcg aacttcncct tcagcaagac tcttggcctt cgctcaanca tatcgttgtg 420

tccagagcca tanc 434

<210> 3680
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-F8

<400> 3680

acgcgtccna atggatcgtc ttaagcttta tttctccgtt ttcgttttgt ctttctttat 60

cgtctcggtt tcgtcgtctg atgtcaacga cggcgatgat ctcgtgatcc gtcaggtggt 120

tggtggagcc gagcctcagg ttttgacctc agaggatcac ttttctctct tcaagcggaa 180

gttcgggaag gtctacgcgt ccaacgagga gcatgacnat agattctcgg ttttcanagc 240

gaatctcagg cgancgaggc gtcacnagaa gttggatccg tcggcgactc agnggngtta 300

cgcagttctc agatntgacn cggtctgant tccgtaagga agcacttggg nggttacaan 360

tgggctttaa gcttccnant tgatgccagc agggntccca ttctccc 407

<210> 3681
<211> 441
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-F9

<400> 3681

gaattaacgg gncgacccac gcgtccgttt ttttattctc atcggcaaaa tatatatccc 60

caaaatttta tcatatttct cgatagagaa aaatcattaa ctaaatatcc attcccactc 120

aaaaccctaa aaaagagagc ctcaaaatct ttgagtgttt tgcgtcgtcg gttttaaaca 180

aaaaggttca ataacttttt ctctcctttg tttctttttt gtttattatc tcctctcatc 240

ccattttccc aacacgacgt cgttacagat tcctccgatg gacttcccgg acgatcaccc 300

ttaaccacct tacaaaacga cgacggagga agaaaaggaa ccggtacagc cggagcggtt 360

agggttaaac cgtggttcac ttggagatca agatccgaat cggacttcaa atcgttttcc 420

ggttaaccaa gaagagtcct t 441

<210> 3682
<211> 383

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-G2

<400> 3682

acacacattt gtcgaaatcn taacaccaat cccaaatcag aaaaatcaaa actttttant 60

ttatttttatc aaaatggngc ttatgaatgg aagcatgaat cnatcatcgg tcaaatcatc 120

gatgatcaac caccgtcaac canacttctc ctccgccgtc tccagaccca cttctttccg 180

gatctccgcc gtgcaaaccg acccaaaaac accaggctgc ttcatcggcg tcggcggcga 240

cgacnactcc ggnaacgttg acgaagcccg ttggagttaa ngtgggtaaa ggaaaatggg 300

caccagagag ttggaggacg aaganagctt tacagnancc cgggctatcc agatttagct 360

gcgcttgaag gctgtgccag acn 383

<210> 3683
<211> 367
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-G8

<400> 3683

acgcgtgggc tctctaactt gaaagttgtt tccttttttt gaatctgagc tggttttgga 60

attttggtgt caagatttgg aatttgaatc tgtagtaaga ttcaggttta gtgggggagg 120

gaacaagttg gaagcttttg ctagttttgt caaaggtgtc actaaagtac taactatcag 180

aaaacatttt cagccagaag cttggtgatg tatcttcaga ttttcaacaa cccatctcat 240

ggcttagctc atttatgcta ctctagtcgg ggtttcgtgt agggtaagac tgagtcgtgt 300

ccttgccatg ccaccgtctt cagtcctcct tgcatatgga cgaaagcaat gatcttccca 360

agccang 367

<210> 3684
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-082-Q1-E1-G9

<400> 3684

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gtcgcaatct caaccatatg gagaaagaca tggcaatgat gggagacaaa ctgatactga 120

gaggcttgaa attttatggt ttccatggag ctattcctga agagaagacg cttggccaga 180

tgtttatgct tgacatcgat gcttggatgt gtctcaaaaa ggctggtcta tcagacaact 240

tagctgattc tgtcagctat gtcgacattt acaagttagt tttaattact aatatgagag 300

gatttgctag agatagttaa ctaaattctc ccctttactc ttgaccaatc catttttatt 360

gtgacctcat ccaaaaatga caagctttgc ttatataaca atttgtcanc actatctgtg 420

tcactgagtg atgcattgat tataggatat gaaaatgatt 460

<210> 3685
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-H10

<400> 3685

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cgtgctctgt tttaagcttg aaggaggaaa aacatggcag accaagaatc aagataagaa 120

cattgagatt tggaagatta agangctaat caaaggactt gaaaccgcaa gaggtaatgg 180

aacaagtatg atctctctta taatgcctcc tagagatcaa gtagctcgtg tcactaagat 240

gcttgctgat gaatacggna ccgcctcaaa catcaagagt cnagtgaatc ntcaatctgt 300

tttatctgcc attacttctg ctcaacanag attgaangct ttacaacaaa gttcctccga 360

atggncttgt tctcnatact ggaaccattg ttactgatga nggnaangng aagaaagtga 420

ccaattgatt tcgaaccctt ttaaaaccga ggan 454

<210> 3686
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-082-Q1-E1-H11

<400> 3686

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gtgaacactg aggcccgtag tttatctctg cagaagcaac tccagagata ttctccagtc 120

accctcgaag ccaagttgac agaactttct gaagcagatc agaaagcgtt gggtctaatt 180

gtgaaggctg caaaaattat ggacgatata ttctatgagc aggtttggaa cagcaatcca 240

agccctaaga gattggctga aggatcatgc caatgcatca aaactggaca aactaaaatg 300

ggattacttc acgatcaaca aaagtccatg gtcgtctctt gatgaaaatg aagcattctt 360

gagtactgcg gattcagctg taaagttgct tcctggagca acaaaagcca taanctggct 420

ggaaagggtc cttgaatata gagcagcctt ccanttgact aaacca 466

<210> 3687
<211> 401
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-082-Q1-E1-D6

<400> 3687

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caccggacgt ttcaaatcca tcctccgata actatattcg tttcgttaga tctagatctg 120

agcgtcggtg agagattttc tggatctgtg atacgttcca ggaaacatgg ngacnatgaa 180

aagtttgata ggtctgataa acaaaatcca gagggcgtgt actgtcctcg gagatcatgg 240

cggtgaagga atgtcgcttt gggaagctct cccaaccgtc gctgtcgttg gtggccagag 300

ttccggaaaa tcttcagttc tagaaagtgt tgtgggaaga gattttctgc ctcgtggatc 360

tggtatcgtt acaagggang gcattgggtg ttgcaacttc n 401

<210> 3688
<211> 440
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-F5

<400> 3688

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngaaa atctagaaga agagaaagct 120

acaaaaatct caacatcgag gtaagagttt tggctacaga gcaaccatgc taacttgcgc 180

cttctcccaa aatcttatcc actaatctcg gtaaggaaag tgatgttggc aaaatggtga 240

agaaaggaag ttggttttct gctatcaaaa gggtttttac tccanattcc nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntttggga 360

agctaaggca tgngcgagac caattcattt cttcccatct tcagangagc ctantagtat 420

cganaagatc ttggggcgaa 440

<210> 3689
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-F6

<400> 3689

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cttaaccgca ttcttcaact cacaggattc agtgacccag tctatgctga agcacatgtg 120

acggtacacc attatgatat tgctcttgaa gttacagtaa tcaaccganc caaggaaacc 180

cttcagaact tgtgcttgga gttagcaanc atgggtgatc ncanacttgt tgagcgtcct 240

caggaactac agtctggcac ctggaaagaa gcatgcagat tnaagcnaan atnnaggtgt 300

cgtccacaag angacnggga gtcatattcg gggaanatcn gtcnatgaga catcaaatgt 360

aatgggncga aaacntcgtt gntcttantg aacatncaca tttntatcat tggactatat 420

ctcccntgct gt 432

<210> 3690
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-F8

<400> 3690

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ttattctccg gcaccgccac atcatcaaaa acctcaaact tcaactccgg caacatctcc 120

tccttcctca tctcacaaat gttatgcaac acacaacaag ctccaagcac gtacggcaga 180

tcctgaagct tcacctccgt ccgtttctgc aaacaagccc accgtccttt gagcctctca 240

aacgcagccg tcgcaatccc ctgaatctct ccgatactct cgttaaacgc gtgctgcgtc 300

cacgtcagat tctgtctcgt gtacggtaca agaagataat caagtcaacg gaaacccaga 360

gtttccaact atccagctgt cacgtaacat cccanngcgc cgctctttgc cgtgnaaagc 420

gaagatt 427

<210> 3691
<211> 491
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-G1

<400> 3691

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agattattgc tcctgttcct cttggaattt atgatggtgg tcaaaagaat gttgtcaaga 180

aacgtgtgtc ttttgctgaa ccggtagaag aagtcaaacc aatagaaacc attaaagagc 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnca 360

gttcaangct atggaaatga ggaatatgaa gtcgtagcat aaaaggagaa gtgaaagctt 420

tgtaagttcc gtctggttac ggattagaan gcgaccgatn tnctgtgaag gttnatattt 480

tgggagggtt a 491

<210> 3692
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-081-Q1-E1-H3

<400> 3692

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gtggaatggg ccattgcgcg agatgataaa caaaccggag atcctccaca aagctatggn 120

agagatcgat aggagtcgtc ggnaaagaaa gattcgtcca agaatccgat ataccaaaac 180

ttaactatgt taaagctatt atccgagaag ctttccgtct tcatccccgt cgcccgcctt 240

caacctccca cacgtggcac tctctganac gaccgtcgca agttancata ttcctaaaag 300

gaangtcaag ttttacntan gccgttacgg tctttggnnc gtaaacccca acngtttggg 360

tctgatccac tntagccttc aanccaagna aagggcatct caatggagtg tttcgggnag 420

tga 423

<210> 3693
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-H4

<400> 3693

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gcttttaacc tcagccgtta aatctttctc cgatcatgcc ganaagaaac atcgccattg 120

gnggagtcca agaagaggtc tatcacccca atgcacttan ggcggcgctc gctgagttta 180

tctcgacttt gatcttcgtc ttcgccggct caggctccgg aattgctttc aacaagatca 240

ctgacaatgg ancaacnact ccttccggcc tcgtcgncgc tgccttagct catgctttcg 300

gtctcttttc gctgtcgcnt gtttggcgct aacatttccg gtggccangt taccctgctc 360

gttaacttcg gtgtcttaca cggnggtaan atcactctcc nccgtggnat tccctacngg 420

attgctcanc tttcttgggg tcccgtcggc cggctgtgtt tcctncct 468

<210> 3694
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-081-Q1-E2-A1

<400> 3694

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aacaatcgtc tccccattag gcacattgtt gagggcaggg tagtctcgtg agttctcttc 120

tcctgagtgt aactgtggtt aaaagcttag ccaagatgca gggggagagg gccagtcttg 180

gctatttatc agaggccttg aactttgagc atggttcttc ttcaagtaat ggtgtgatag 240

atcattggga gaatattcac agtcttggtg ataatgactt gcaggattac atgattgcaa 300

attctgaatc aaatacttcg cttgcaaact cagtttatca cgagcaacaa ggtttacgca 360

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atg 423

<210> 3695
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-A11

<400> 3695

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tttgcttcac cgaantaaga nagttgattt cattgaacaa ttcaatgaaa agcttctagt 120

tgagcaagag ancgagaatc tacggatact tgacgttcga aangctgagc tgatagaagt 180

tagcagaact gacttcatga caccatcaag cattcagnat ttttgtatga gaatcagttg 240

tttcnaagat tcaggaaccg anatgtntct gtgtggaatt tccgcggaga gcttgtgacc 300

tcgtttgagg atcatcttcn ttggcntcca gactgtaaca cangnaanat ctacataaca 360

agcgatcaag atctgatcat cncataatgc aaag 394

<210> 3696
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-081-Q1-E2-A6

<400> 3696

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taccatctcc gcaaaaccct tcagaaaatc agagagtata ccggaaagca gcactcggat 120

gaggatatct ttgccgtcta taaggattcc ttcaatgatc ctcatgagac cgctcagaag 180

ctcctcttct tagatacatt tcatgaggtg agaagtaaaa gggagaaaaa gaaggagcct 240

atagtgccag ttacacaacc aagtggcaga ggtggtcgga ggaactttgc ttcaagtaac 300

tcttatcaag gtagtggaag aaatgcttct tttaaaaggg aaaatggagc taatcatgta 360

acaagaggtt ctagaactgc tcagcctgcc actaacaaag caaagcaaca tcacagt 417

<210> 3697
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-A9

<400> 3697

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ccagatgtgt ccggttggtt tacaagtccg gtcacgtaac gggaaacgtg tagtagcctg 120

taaaagtgct tgctctgcct tcaattcacc acagtactgt tgcaccggct tgttcggtaa 180

cccacagtct tgcaaaccaa cggcttactc caaaatcttc aaagtcgctt gcccaaaagc 240

ttactcttat gcttacgacg acccaaccag tatcgccaca tgttccaagg ctaactacat 300

cgtcaccttt tgccctcatc atcgccatta aattagccag taaagaagaa gaaacatttc 360

tctattaaca acaaactcct gtcangtttc caaattcctg 400

<210> 3698
<211> 444
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-B3

<400> 3698

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tcgcgtctat ggcggtcaaa tgtttctctc tttatctgat tctggcggcg attgtaatcg 120

gcggcgtcac ctccgagtac atagagtaca acacaaaacc gagaatcgtc cctgagaaaa 180

tcaatgttca cttagttcct cactcacacg acgatgtagg ttggcttaag accgttgatc 240

agtacnacgt aggctccaat aactccatta ggggaagctt gtgttcanaa tgtattggat 300

tctgtaatcg cttcattgct tgatgatgaa aatagaaagt ttatttatgt tgaaatggct 360

ttctttcaaa gatggtggag gcaacaaagc aatgctaaga aagttaaagt caagaanctt 420

gttgactctg gtcaacgttg agtt 444

<210> 3699
<211> 481
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-B4

<400> 3699

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ctgaatacgt ttgatgaacg tatcagttca tttgctgaac aaaagttcac gcgagatggt 120

attgatgttc agactggaat gcgtgtaatg tctgtgactg ataaagatat cacagtgaaa 180

gtcaaatcaa gtggagaact cgtaagtatt cctcatggat tgatattgtg gtccactgga 240

gttggaaccc gtccagttat cagcgacttc atggagcaag ttggccaang aggcagacgt 300

gcggtggcaa ctaacgagtg gttacaagtg acaggatgtg agaatgtata tgcagttggc 360

gattgtgctt ccatagctca acgaaaaatc ttgggggata ttgcaaacat attcaaagct 420

gcagatgcgg acaactcagg aaccttgacc atgggnagag ttanaaaggc gtggtttgat 480

g 481

<210> 3700
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E2-B5

<400> 3700

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attcgtggaa tattttgcaa cttcgatacg taaattacgt aattagggtt tgataatgtt 120

ttatgtaacc agccccgaat tgaattagtt ccaaagttag ggtttttctc tctcaaatta 180

gggttttgcc ccaattgtgt tcttatattg aatttaccat ttgcgcaggt tatgtggtgg 240

aggttgtttc caatttaaag tatgtacctt taggttagaa attaggctta tttgtttctc 300

cagtgggttt cattgtagaa acaaattgaa ttttaggtgt taatgtgaga ttaggaaaca 360

agaatctctg cttttaacaa ggtaatagga gaatagggtt taagtanaag aaaggttaaa 420

actttg 426

<210> 3701
<211> 380
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-F10

<400> 3701

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tcaggaaagg agaggtcaac gaactttaga gctgatccga caagaaaagg aaactgatga 120

gcagatgcaa gaagcagcca ttcagaagtc aatgagcttt gaaaactcag tcatagggaa 180

atacagtata tggaggagag actatgagag cccaaatgct gatgctatct tgaagcttat 240

gagagaccag atcataatgg caaaagcata tgcnaatatt gccaaatcaa aaaatgtaac 300

caatctgtac gttttcttga tgcagcaagt gtgggagaaa ataaacgtgt tataggtaaa 360

gcaacctcct gatgccgacc 380

<210> 3702
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H10

<400> 3702

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agatcttctc tttaggcata cccagatctt tctctctcta aagtctccac ctttcacggt 120

tttttgcttc tcacctgaat ccaatcaatc tcgccggagt gaattcacct tcctccggtt 180

gactcgtcgg acttagtccg acctttcaat tcgtagattc tgtttacaat tcactgatcg 240

tttgattaga aatgggttac ttgttcttct aagtctctct ttagctgaaa gtttgttgct 300

ttacgactct tcgatttacc cttacttgtt caagttcttc atcaaattcg taggttatgg 360

ggataaagaa tcactttcac ttactccaac caagttggcn 400

<210> 3703
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H2

<400> 3703

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nnnnnnnnnn nnnnnnnnnn nnnnnntcat cgcagcttct cctccgacca tttgactgcg 180

actgtgatta caacacaccg ttgatcctac gaaaaagagg taatggatac tggcggcaat 240

tcgctggcgt ccggacctga tggtgtgaag aggaaagttt gttatttcta tgaccctgag 300

gtcggcaatt actactatgg ccaaggtcat cccatgaagc cccatcgcat ccgcatgacc 360

catgccctcc tcgctcacta cggtctcctt cagcatatgc angttctcaa agccctttcc 420

tgccccgcga acgtngatnt ctgccggctt caaagccgaa caactatgtn 470

<210> 3704
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H7

<400> 3704

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gttctcatct ttctctctaa gagattttgt aggtgacaat caaaagtttg acaaaatggt 120

gaagtttaca gctgatgagc ttcgaaggat tatggactac aaacacaaca tccgtaatat 180

gtctgttatt gctcatgtcg accacgggaa atccactctt actgattctt tggttgctgc 240

tgctggtatc attgcccaag aggttgctgg tgatgttcgt atgactgata ccagagctga 300

tgaggctgaa cgtggtatca ctatcaagtc cactggtatt tctctctact acgagatgac 360

tgatgaatcc ttgaagagtt tcactgggag ccagagacgg naaaccaata actcaacaaa 420

cctaatgatc cacctgggca cgttgaactt tcctccng 458

<210> 3705
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H8

<400> 3705

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gacgaatatt caaaaaaaaa aatttctttt ctctttctaa caccacagat ttcgcaatcg 120

tgttttgatc tgattcttcc aggattctcc cggtggcgga gagaagaaac aaaggaaacc 180

cagaaagcat ttttctcaat ggcgtcgact acacgagaaa agtttgtatc tttcataaac 240

aacagatggc tcgtcttcgt ggctgccatg tggatacagt cttgtgctgg catcggttat 300

ttgttcggaa gcatttctcc ggttatcaaa agctccttaa actataatca agaaggagct 360

ttccagactt ggagtcgcca aggatctcgg tgatagtgtc ggattcatcg ccggtactct 420

ctcctgagat cttgcctccn ttgggccgct ccttcctggt tgggcgccgt t 471

<210> 3706
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H9

<400> 3706

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gtctctctat ctctctcttt cgtacacttc gcgcttctct tcctgtcaga ggcgtttctc 120

atggctcctc ttactctctc cgttgatgtg aagagctctt cagcgacctc tcatgatgtt 180

tcnaagaggg taatgcagag ttcacagctc aaaataaaca aaggnttttt tgcatctgtt 240

aatacacaag aagataaacc ctttgatttc ttccgcactc tctttgaggg gtttatagca 300

ggaggtacag ctggagttgt agttgaaaca gctttatacc caattgatac tattaagact 360

agacttcagg caggcagctc gtggaggtgg aaaaattgtt ttgaagggtc tttattcagg 420

attanctggg aatat 435

<210> 3707
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-A1

<400> 3707

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gtttctctct tcaacaatcg tctccccatt aggcacattg ttgagggcag ggtagtctcg 120

tgagttctct tctcctgagt gtaactgtgg ttaaaagctt agccaagatg caggggggaga 180

gggccagtct tggctattta tcagaggcct tgaactttga gcatggttct tcttcaagta 240

atggtgtgat agatcattgg gagaatattc acagtcttgg tgataatgac ttgcaggatt 300

acatgattgc aaattctgaa tcaaatactt cgcttgcaaa ctcagtttat cacgagcaac 360

angggtttac gcaagattta gccttggtga ggctaagctc ctaagtgggc acgaaaggat 420

gaagcttcca antcnaaaat ggagcaaacg aat 453

<210> 3708
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-B3

<400> 3708

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ttatctgatt ctggcggcga ttgtaatcgg cggcgtcacc tccgagtaca tagagtacaa 180

cacaaaaccg agaatcgtcc ctgagaaaat caatgttcac ttagttcctc actcacacga 240

cgatgtaggt tggcttaaga ccgttgatca gtacnacgta ggctccaata actccattag 300

gggaacttgt gttcagaatg tattggattc tgtaaatcgc ttcattgctt gatgatgaaa 360

atanaaagtt tatttatgtt gaaatggctt tctttcaaag atggtgggag gcaaacaaaa 420

cantgctaan gaaagttaaa gtcaagaagc ttggttgant ctggtcaact tgagnttcat 480

aaaatggtg 489

<210> 3709
<211> 336
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-B5

<400> 3709

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ttttgcaact tcgatacgta aattacgtaa ttagggtttg ataatgtttt atgtaaccag 120

ccccgaattg aattagttcc aaagttaggg tttttctctc tcaaattagg gttttgcccc 180

aattgtgttc ttatattgaa tttaccattt gcgcaggtta tgtggtggag gttgtttcca 240

atttaaagta tgtaccttta ggttangaaa ttaggcttat ttgtttctcc agtgggtttc 300

attgtagana caaattgaat tttangtgtt aatgtg 336

<210> 3710
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-B6

<400> 3710

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ttctttgagc tttccctttg agctctcaca cgagcggctt cttttgtcat ctcacctttt 120

ccttcattct ttcttccttc aaattctggt ttttttcaca gatcgttttc tcagattttg 180

actcttttg gtgttgttgt tgttcttctc cttcgtgaag tggaagaaga anataacaaa 240

actgggtttt ttatatctgg aattctgaag aaattcttca cggatttgat ctgtttaaac 300

tanaaaagtc ttgattttta gaaatnagct aaaaataaga cacggtttan gggtttangg 360

tttgactaga aacaacanta ctgaaanggg gtgtgaggtt tcaaagttan ggt 413

<210> 3711
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-C5

<400> 3711

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ggttangaac caaagctcca ccactcacaa gtcaccaatc ttgttgctta aagagacaac 120

atggggaaca agaaatctgc anacagataa ggcgtgaaag attctgacga gttaaaacgt 180

gtgaagtggg ttttgggta cgtatcctct gcaccagctt tttagctgta natantggac 240

tacttttaag tattatatat gctactgcaa atttcaaaaa gttaangaat gaaaagaggt 300

cactttcttc ttctctctgt gtggaatgna aagccaanag tcntcaaggg ncantgatgg 360

acaatganta tcgtttttgg ctgaagtgtt ggntggtgaa atcacaagcg c 411

<210> 3712
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-C6

<400> 3712

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gccaagtatg cgcaatgctg ctcaagtggt tcacgataca ttgccaagcc cttctgtttc 120

agcttctatg aagacgcaca naccaaacca ggccaattcc ttctcaacca ttcgctagtt 180

cttcaccttc ttttcatcct caagctgatc ccactcaccc gtttgcttca tcgacagcta 240

aacgaggacc tgttcctatt gtcaagggca aaaaaacaca aaccaagttt ttcctggctc 300

gtcttccaca aaacatgccc cataccatcc ttcagatnaa cctccacgag gacaaagtca 360

tgaacagatt accatctgtt cctgccaagt tnaaag 396

<210> 3713
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-D3

<400> 3713

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cggaaacgat ttcttcgccg attccaagac ttttcttcct aagcttttta acagatccgg 120

tgaaaatttc aaaatccgaa gaattctcta aagctagggt ttcttaattc acgagacgga 180

ggtgatataa ttcccccccg tcgtagctat gatgatttcg agaggtttgt ttggttggtc 240

tccgccgcat atacaaccgt taactcctgt ttctgaaagt ttccgagcct cctgagtctc 300

catctcctta ccttggatcc tggtgctgac cacngtggta caggaacagc ggcgcaaagc 360

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tcctttctcn caagcctatt tgc 443

<210> 3714
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-D8

<400> 3714

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agcacttggg ttgaaccacc caaattgtga cctgaccaag actcaagacc aaggctctac 120

cctaagaatc ttccacatag acagcccttg ctccccccttc aaatcatcat ccccactctc 180

atgggaagcg cgtgtgctcc agacgctggc tcaagaccag gcccgtctcc agtacctgag 240

cagcctcgtc gccgggagat ctgtagtccc cantgcctca ggggcgtcaa atgttgcaaa 300

gcactacnta cattgtcaag gctttgatcg gtactccggc tcagccgctg ctcctagcca 360

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aacagg 426

<210> 3715
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-081-Q1-E1-E1

<400> 3715

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gaactgcttc agctaaggan aaagacaaac tgtctctggc ttaanggaag ggttccataa 120

cgggagggaa aatattgtcc atgaaaatac tagcaacact gataatgata atagcaatac 180

ttccacaaat gctcttgcaa ttgcaatcac tgctgggaat tctcagcgtg taaccnatga 240

gagttcaact tcttccanac aagggaatga tantcccatt ttgcctgata actcagaaag 300

cagcctanca aatgcggnta gagactggga acgaggatac cantcaaana aangatctgg 360

cangaaaatg gtcccagtag atgaganggc caaatttggt gcaagngaac tctaaacgca 420

atttgantgg gtttg 435

<210> 3716
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-H1

<400> 3716

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actacaaaag tagaaagaag aaaaaagaac aaagtatcag ttcttgaata tttgcatcaa 120

tggaggaatc caaaacacct cacgttgcga tcataccaag tccgggaatg ggtcatctca 180

taccactcgt cgagtttgct aaacgactcg tccatcttca cggcctcacc gttaccttcg 240

tcatcgccgg cgaaggtcca ccatcaaaag ctcagagaac cgtcctcgac tctctccctt 300

cttcaatctc ctccgtcttt ctccctcctg ttgatctcac cgatntcnct tcgtccactc 360

gcatccaaat ctcggatntc cctcaccgtg aatcngtnaa aacccgggag ctccggaaan 420

ttctttnanc tctttgntcg gaaggaaggt ctttttng 458

<210> 3717
<211> 458
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-E11

<400> 3717

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tctttatatt ttgaaaaaga taacaaacat cgaaatccat catccactgg catagagatt 180

tgtgaagcag aagcagaagc tgctgcttca gctattgctg tggcagccat aactaatgat 240

gaaaccagtg ggaatgcctt gagtactggc tctgtattac ctgttgaaac caaaatttat 300

ggaggaacag agttagatga tggggcagca agtggtactg ttggtgggca gactagtcga 360

tcaaaagctg aggaatctct cattgtttct ctaccagcag atctttcagt ggacacccca 420

atctctctgt ggccacaatt accaagtcca canaatca 458

<210> 3718
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-E4

<400> 3718

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gtggtgaagt tgaccaaatt tataaactga tccaatttta aaatctaaga gatatggaga 180

acatggacga tttctcaccg gagaatgttt tagcaccacc accaccacct cctccaatga 240

agaagtcaac ggatctgttt atgcaaagaa gcaatagctt tgtttctaaa gctacgagag 300

attcatggga tcgtatgttc gacgaagctc atggagctga tgttttgatt catactgatg 360

ataatgggtt gattacgccc aatccnaagt ccancggaat gggcttc 407

<210> 3719
<211> 371
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-E7

<400> 3719

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taatcttctc aataatctcc acatctttct tcaccgttga atcgattcga ctattccctg 120

attcattcga cgatgcatct tcagatttaa tggaagctcc agcatatcaa aacggtcttg 180

attgctctgt tttagccaaa aacagactct tgttagcttg tgatccatca gctgttcata 240

tagctatgac tctagatcca gcttacttgc gtggcacggt atctgcagta cattccatcc 300

tcaaacacac ttcttgccct gaaaacatct tcttccactt cantgcttcg ggtaaaaagt 360

cangggttcc c 371

<210> 3720
<211> 405
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-E9

<400> 3720

ttctctttct ctacatcact gtcttgactg ttatgggagt gaaaaggtca ccgaacatgt 60

gtgcttccgt cggaatccaa ggaatcgctt gggctttcgg tggtatgata tttgccttag 120

tctactgtac cgctggtatc tccggtggac acatcaaccc agcggttact tttggtctgt 180

tcttagcccg gaagctgtcg cttactagag ctctgtacta catagtgatg cagtgcttgg 240

gagctatctg tggtgctgga gtggttaaag ggttccaagc ctaagcaata ccaggctcta 300

ggaggaggag ctaacactgt ggctcatggt tacaccaagg gaagtggtct tggagctgag 360

atnattggca cattcgttcc tgtanacaca atcntcctca acaac 405

<210> 3721
<211> 405

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-F1

<400> 3721

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atgggagaga attaccaatg atgaatggta tcaaagaaga tatcaaatct attggagttt 120

tggattctgg gatttgttca gaagctctct ttagtcttgc ttctcgtttc aaatcattgc 180

agatgatgtg taaaacacat tttgaagagg aagagaaaga tttattgcca atggtggaag 240

ctgcagaaat ggggaaagag aagcagaaga aattgatgaa tcaaagctta naagttatga 300

gtgggactca ttctaactcg tttgatttcc tactagaaag ncccantcca caagaagcta 360

tgcctaanat nnnctngccc angacattgg gggatccaaa anctt 405

<210> 3722
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-F10

<400> 3722

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tgaaaccgga gcattcttct tctgtatcaa tggaccggaa atcatgtcga aactagctgg 120

tgagagtgag agcaacctca ggaaagcatt tgaggaggct gagaagaatg ccccgtctat 180

catattcatt gatgagattg actctattgc accaaaaaga gagaagacga atggtgaggt 240

tgagaggagg attgtctctc agctccttac gcttatggat ggactaaaat cacgtgccca 300

tgttattgtt atgggagcaa caaatcgtcc caacagtatt gatccggctt tgagaangtt 360

tggaagattc gacanggaaa ttgataaccg tgtttccgaa tnaaattg 408

<210> 3723
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-080-Q1-E2-F12

<400> 3723

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ggattgtaaa ttgtggcatt aagaacgatt gtgatcctgc attggcactt cttggagact 120

atatagacaa agaggattca tctgtcagaa tcggtgctat catgggtctt ggaatttcat 180

acgcaggttc ccaaaatgac cagattcgaa acaaattgtc cccgatactg aatgatgcaa 240

aagcgcctct tgatgtgatt gcatttgctt cactttcttt gggaatgata tatgttggtt 300

cctgtaacga agaagtagcc cagtctatta tatttgcttt gatggatcga agtgaggcag 360

aactgggtga tgccctcact cctttcctgg cactngggcc tggg 404

<210> 3724
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-F5

<400> 3724

ccgccgccag gtaanggtca agaattcccg ggncgaccca cgcgtccgcg atgacggatc 60

ctcccagacc cgacccgttt cctgttaccc gactcgattc cgacgccggt gctctcttcg 120

tcctccaatc aaaaggcgag tggtggcacg ccggatttca tctaacgacg gcgattgttg 180

gtccgacgat attgacatta ccatatgcgt ttagaggatt aggatggtgg ttagggtttg 240

tttgtttaac gacgatggga ctcgttactt tctacgctta ttacctcatg tctaaggttc 300

ttgatcactg tgaaaaatcc ggccgccgtc acatccgttt ccgggaactc gccgccgatg 360

ttcttggatc tggattgatg ttttatgtag tgatctttaa tcaaacagct ttcaacacct 420

gggaattgga attgggccaa ttcnacttgc agggtc 456

<210> 3725
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-F6

<400> 3725

cgccgcccan gtaaaggtca nagaattccc gggncgaccc acgcgtccgc cggattgagt 60

tttttaatct ctgattgaca gatttgaaga gcgtgacaaa ggaagaatct tttattaaaa 120

caaattcttc tgttttaatc ttgggatggc ctcggtgggc atagagccta gtgccgcggt 180

tagagaatct actggaaacg ttactgatgc tgatagatta cccgaggaga tgaaggacat 240

gaaaattcaa gatgataaag aaatggaagc tacgattgtt aatggcaatg tgactgagac 300

tggccatata atagtaacta ctataggagg aagaaatggc cagccaaaac agacaatcag 360

ttacatggcg gagcgagttg ttggacatgg ctcctttggt gttgtgtttc anggcaaatg 420

tttaaaaaca aggagaaact gttgcaataa agaaagttct 460

<210> 3726
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-F9

<400> 3726

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tcttacggcg gcggaagtca tggcgaacat agaatcagaa gcagtcgatt tcgagccaga 120

ggaggatgac cttatggacg aagaaggtac agctattgac ggagctgatg tttctccacg 180

cgcgggacat ccgaggctta agtcggctat tgccggagct aatggcgaat cagcaaagaa 240

gaccaaaggc cgtgggtttc gcgaggagaa agattccgat cgtcagcgtc gtctttcctc 300

acgcgatttc gaatcacttg gttcagatgg ccgtcctggt ccgcagagat ccgttgaagg 360

atggattatc ttggtctctg gagttcatga aganaccc 398

<210> 3727
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-G10

<400> 3727

atctgaaatt tctacgtatc cccttggaca cgtctacgag agaggggact tcagatggag 60

ttgcatctca aanaattacc atgttcaaga atattagtgg ccaccaggga ttttttcttt 120

ctggctcaag gccggggtgg tgtatgttgt tcagagagcg actacnattt cattcacagc 180

tgtgcgacgg atcaattgcg gcctttactg ttcttcacaa tgtgaattgc aatcacgggt 240

tcatatatgt cacagcacag ggagttttga agatttgcca attaccttca gcatcaatct 300

atgataatta ttggccagtg cagaagattc ctctaaaggc cacacctcac caagttactt 360

actacgcggg agaagaactt gtanccccctg aaaataacat aaccgggcca nc 412

<210> 3728
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-G2

<400> 3728

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ctaacaggat tcttacggaa ggctaatcgg gttctaaggc aagcaacact gattactatg 120

aataccttgg taacagccta tggtgataaa attggttcag aagcttatga agttattctt 180

gtggagcttt catctctgat aagtgtttca gacctgcaca tgacagctct tgcactcgaa 240

ctctgctgca ctctgatgac tggaaagagt tgtagtgaaa atatcagttt ggcggtccgc 300

aacagagttc ttccgcaggc actaacttta gttaaaagcc cattgctcca gggtcaagca 360

cttttggatc tgcaaaaatt ctttgaagct cctggtgtat catgcaaata cgagtttcta 420

caccttgctg ggnatcaatg cta 443

<210> 3729
<211> 457
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-G4

<400> 3729

gggcccggtc acagaataan cgggncganc cacgcgtcna caaancttgg gatatccaac 60

accagtcctg aggagcttac tcccgaggag ataaagaagt ttgcgaggct tgatattgat 120

cctgcttcta tcacttggag aagagtgatg gatgttaatg atcggttctt gaggaagatt 180

actattggtc agggacctga ggaaaagggg atgactagag aaactggttt tgacatttct 240

gttgctagtg agattatggc tgttttggct ttgacaacct cactaggtga tatgananag 300

aggcttggta aaatggtgat tggtaacagc aaggcagggg atccnataac ancaagatga 360

tctcggtgtt ggaggagcct tgactgttcc tgatgaaana cccattaanc cgacactcca 420

tgcanacact ggaagggacc cctgtccagt catgcct 457

<210> 3730
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-G5

<400> 3730

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cccatctgct gcttctcttc cagcttcaac agaaggtgaa aggaaagaag acgggaacac 120

tggaacgtgt gcgatatgtc tcgatgctcc atctgaagca gtctgtgtcc cgtgtggaca 180

tgtcgcggga tgtatgtctt gcttgaagga gatcaaatcc aagaattggg gatgtcccgt 240

ctgtcgagcc aagatcgatc aggttattaa gctgtaccgt gtctgaaaac aggtatcaac 300

aacaacatgg gattatctat atccttcatt gaactattga aactatatct ctctatttac 360

acaagctaaa atcaatanca aggtttcctt ttaaccaaag gctaaacaan tagttgg 417

<210> 3731
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-E10

<400> 3731

acctgaagta nagccatcta aggaagtcac agagattctg atttataaaa ttgaccaaaa 60

caagtcacag aggagacccc ggaaaccaaa cagtcgacga ttacgaagat gaggatcact 120

gtcatgaccg ccggtgaaca aatcatcact ctcgatgtcg attctcagga gactgttgag 180

aatgttaaag ccttgctcga ggttgagtcc aatgttccga ttcagcagca gcagctgttg 240

tataatggaa acgagatggg aaattccgat aaattgaagt gccttgggtg ttaaggatga 300

tgatttattg atgatgatgg tttccaatgc ctcatctggg tgccactaag tgcgggcggg 360

ggaaatggan ttggggcatg aaatcccgna tggggtcaac ctttggancc ctg 413

<210> 3732
<211> 387
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-080-Q1-E2-G9

<400> 3732

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tcatttcaga ctcttgtcac agtggtggcc taatcgacga agccaaggag cagattggag 120

agagcactaa gaaagaagcc gaggacgaag atgaatctga agaatcttct tcaagattcg 180

ggtttaggaa gttcttgcgc agcaaagtgg aaggcgccat cgagtctcga gggtttcaca 240

ttggagggaa caagaaggat gaagatgagg cggaagaaat cgagactaag gagattgagc 300

ttgaagacgg agaaacgatc catgccaaag acaaatctct tcctctgcag accttgattg 360

atattcccaa gcagcaaaca ngggaat 387

<210> 3733
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C8

<400> 3733

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ctcatcctcg ccgttctctc ctttcttctt ctctcttcat tcgtctcctc tgttgagtgg 120

ctcgatatcg attcctcaga tctcaaagct cttcaggtca tcgaaacaga gctcggagtc 180

aacagtcaac gttcttcggc cagtgatgtc aacccttgcg gtcgccgagg agttttctgc 240

gagagacggc actctgccac caccggagaa tacgttctcc gtgtcacgag gctcgtctac 300

cgatncagga gcttgacggg gactatctct ccggtcatcg gaatgttgtc ggaagctcaa 360

ggaacttact ttgtctaata accaagttgg gtcaaacgct gttccggtgg atatcttaan 420

ctgtta 426

<210> 3734
<211> 402
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C9

<400> 3734

tctctaatta aaatggctgt tcccacggga agcgccaatc tctttctccg gcctctcatc 60

ctcgccgttc tctcctttct tcttctctct tcattcgtct cctctgttga gtggctcgat 120

atcgattcct cagatctcaa agctcttcag gtcatcgaaa cagagctcgg agtcaacagt 180

caacgttctt cggccagtga tgtcaaccct tgcggtcgcc gaggagtttt ctgcgagaga 240

cggcactctg ccaccaccgg agaatacgtt ctccgtgtca cgangctcgt ctaccgatnc 300

angagcttga cggggactat ctctccggtc atcggaatgt tgtcggagct caaggaactt 360

actttgtcta ataaccagtt gggtcaacgc ctgttccngt gg 402

<210> 3735
<211> 478
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-D1

<400> 3735

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tacagaacca agagcctctt tctaatcgga gttactttaa tccccttgaa ccatgtcaaa 120

gagaaagact aaagagccaa aggtcgatgt tgtgactctt ggaccatctg ttcgtgaggg 180

agagcaagtt ttcggtgttg tccacatctt tgcttcattc aacgacactt tcattcatgt 240

tactgatttg tctggtcgtg aaactcttgt ccgtatcacc ggtggaatga aggtgaaagc 300

tgatagagat gagtcctcac cttacgcagc tatgcttgca gcacaggatg ttgctcagcg 360

atgcaaggaa cttggtatca ctgccatgca tgtgaagctc cgtgccacaa gtggaaacaa 420

agaccaagac acctggtcct ggagcanaat ccggccctaa aancctggc ccgttccg 478

<210> 3736
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-D2

<400> 3736

aaacactcca actacgaatc tacaatcatc gagcacatac aaagaggaag atttcaaatc 60

caatcatcaa tcatctcttt tgaatgatcc gattccatct acttgctcct taaatttatt 120

gttgatccgt ttgaatttgg tgtttgttga ggcggagatc tcgaagatga agcagcttct 180

atgttatctt ccatggcttc ttcttctctc tcttgtggtt tccccttta acgaggctcg 240

attcgttgtg gagaagaata gtttgtcggt gacttcgccg gagagtataa aaggaactca 300

tgatagtgca attggtaact tcgggattcc tcaagtacgg gtggaagtat ggctggtacg 360

gtggtttaac ctaaagagaa tcagaaatcg tgttaaggaa nttaacgaat t 411

<210> 3737
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-D9

<400> 3737

actgaaagca caagagataa gattagaaca gctaagataa ggttggtggc tgctagaaag 60

atgaaggaag cggccagaga ggctgaggcg gttgcaatcg cagagattga ggctgttact 120

ggaagtatga atgttggtaa ggccgaggct gtgactatct ctgctgaaga gtattctgtg 180

cttgctcgta gtgctagaga cgcagaggaa gaggcgagaa agcgagtgga agatgcaatg 240

tcgagagttg aagaagctaa tgtttcaaag aaggatgttc tgaagaaagt tgacgaagcg 300

gctcaagaaa ttgaaaccag caagagagta ttggaggaag ctgtggagag agttgacgct 360

gcaaatgctt cgaagatcga agcagaagaa gcgctgcgaa aatggcggtc agagaa 416

<210> 3738
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-E10

<400> 3738

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attgtcatct cctacttggt ctccattact ccagccaagt agagtttgtc gcctctgctt 120

tttcttacac cattgtccaa gctttctcct ttttcgaaga aatctggaga gagatatgtg 180

ctgacatcaa ggaaggtaat cttagctcaa gaatcactct gcccaagatg agaaaagctg 240

tattggctct gatcagacca aacccgtctc ttgcttctca tatcgaggag atctgcttag 300

agctggaaac aaatctcgga tggttcggtt tgatttcaaa gctttgggcc aaatgcaaaa 360

tttatctcct caatcatgac gggttctatg ctgccgtacc tgaataagct gan 413

<210> 3739
<211> 342
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-E12

<400> 3739

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ctcttttgtc ccaagcttgt ctgcttctgt ttagttgtta tatgatgatg gattgatgtc 120

tgtattcatc tttgttatag agtatttgtt attgtttgcg ttcaaatctt catttttgg 180

ggtcttctat caattgtttc tttggtatct ctttgtgaaa taaaagattg gtaatattgg 240

gtattgtttg ttttcatttt ccatgtgtac gtacttttnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nn 342

<210> 3740
<211> 436
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-E4

<400> 3740

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cgatggtgga tctatgcctt ctattttccc gacgcactac cattggtata gcaccgagtt 120

cgccgaagaa tctcgaatcg tccatgttta ccacacagtc ttccatggtt tctccgccgt 180

tgttactcca gatgaagcag ataatctccg taaccaccca gcagttcttg ctgttttcga 240

agaccgacgt cgagagcttc acaccacacg ttctcctcaa tttcttggtt tacaaaacca 300

aaaaggacta tggtcagaat ctgattacgg atcaagacgt aatcattggc gtttttgaca 360

ccggaatttg gccgggagcg gangagtttc tcagatttta acctcgggcc aattccaaaa 420

agggggagaa gcgttt 436

<210> 3741
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-E7

<400> 3741

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tcactgttaa accctcacaa aatttcctca ggactaataa tctgcgatcg atcgtcgtta 120

tgataagtct ctaaagaaga ttgatgattc tggattacat tatcatggga ggagcttgtt 180

caaggaagag agatcaacaa gttgaggata ttttaaacag aggtgtctct ggaaaatata 240

gcaagagttc aagttcgaaa tggttagcta cttcgctctc taggtctggc tccgatgtta 300

aacggaagaa tggagaatgc ccgtcgctta tggagctctg tgtccgcaag atacagggag 360

gacattggnt agatatacca aggttctccg ganctaacct aga 403

<210> 3742
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-079-Q1-E1-E8

<400> 3742

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ttgttttgtc tggtcctgtg ctaaatgaac gggagcttga gggtttgctt ggtgatccac 120

tgttaaaatc tcaaatcttg cccacatttt ttgacattcg tagaggaatt gaaggatctt 180

tgaagaaggg tcttcnaaaa ctttgtgaag ctgcagatga agctgttcgt aatggttccc 240

aagtacttgt tctctcaaga cagatctgat aatccggaac caactcgacc tgcaattcca 300

atgttgttgg ctgtggggtg ctgttcacca acatctgatc cagaacgggt cttcnggatg 360

tcancttccn ntanttgcag atacaagctc antg 394

<210> 3743
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-E9

<400> 3743

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attagacgga cctatccttc aactaaccag tgtaattcac tcgcgacgat tcaatcacaa 120

acccaattgc ctcgcgaatc tctgcaacat cattcttcag ctgagggacg actccgattc 180

tccgggagag ttttctgctc ggaatctggc gccggatgct ggaactgtgg cgagaaagct 240

gccttttttgt tctgtaactc atgccgtagc attcaacctg ttgatgactc cgtcgactat 300

tttcagattt ttgggcctgg agaagaagta tgagatagat cctggaagcc ttgaaggcaa 360

gtacaaagat tggcaaaaga agctacatcc tgatttagtt cataacaaat ctaag 415

<210> 3744
<211> 308
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-F1

<400> 3744

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gcaagcaaca cacagcggaa ctggcctcga gatttgtacg agaagatagc tcgaagcttt 180

tgaatctaag aaattcgaat acttgtctaa aaaagatctt gtaagaagct gttaaaccca 240

tttttgttac ttaacctcga ggatcacttt ttgttnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnngg 308

<210> 3745
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-F3

<400> 3745

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aaaaccctag aaacgaagaa agatcaagat gggtttgatt agcanagaag agataagcaa 120

aacaagaaga tattcatctt ctctttggag aggtatcaaa acgatctttg ttctcttcac 180

tatgtttctc tctttcatca tcttttctgc tccgatcttc ctcgccgtcg ccgacgccgt 240

cctcccctcc gcaatcctct catcctcctc accctccctc aaccgcctat ctccttctag 300

ttttccggcg acgatttatt cttacctcag taactacgat ttccgttact ctctcatcga 360

catacctctc atctccataa ttagatttgg caatnaanta agcctttaac gggcttggta 420

ncg 423

<210> 3746
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-F8

<400> 3746

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aagagagaga aatggcgacg acaacaacan aagcaacgan gacatcatcg accaatggag 120

aagatcagaa gcagtctcag aatcttcgac atcaagaant tggtcacaag agtctcttac 180

agagcgatga tctctaccag tatatactgg agacaagtgt gtatcctana gaaccagnat 240

cantgaatga actcagggaa gtgacagcaa aacatccatg gaacataatg ancacatcag 300

ctgatgaagg acagttctta ancatgcttn tcaagctcgt taacgccann ancacaatgg 360

agatngggag ttttanantg ggctacgctc cgttttcgcc annggntcct tgcccctccc 420

ggg 423

<210> 3747
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-G1

<400> 3747

aaaaaaaaaa aaaaaagcac atgcggtttc ctctgcttct tccttcttac aagttggatg 60

tctccgtctt ccacggtgct tataaattag tgaaacaaca aaagctttgg tcagtattta 120

tattatcatg catttctaat ctctactttg tcaattccta tactttcact ctcttccaat 180

tatataatct ctggtccata gaaaacatcg gtctcttgtc accgttgatt ttatttggtc 240

aaaatcattc ttcttctcgc tgaataatcg ttgatttcac ttcttcttct ggtcttaaaa 300

aaattcaaga tctatacgag aaaacacaaa acaagtaaaa ctttttcaac cgtttttcct 360

gtcggtaaag tttggattcc tcctaataaa atttgggcct aatgtncacc aaaagaaaa 419

<210> 3748
<211> 417
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C7

<400> 3748

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tgccgagctt agttatatcc gtctatgcta ctgcggttct catcgcttgc tggtggcttc 120

ctgaaactct tcatacacgt tgtagaattg cacaagggag acttaatcca acagagctaa 180

acgatgatga aagtagagga ggaggacttg atgaacagaa aataattaat aagccaagtc 240

tcttgaggaa tcgtccattg atggctatca tcattgttta ttgtgttttt tccctccaag 300

agatagcata caatgagata ttctcactct gggctgttag tgaccgaagc tatggaggat 360

tgagcttctc atctcaagat gttggtgaag ttttaactat atcangactt gggcctc 417

<210> 3749
<211> 494
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-H7

<400> 3749

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aacaatttta tctgtggagt tttctggagt tgctagtgga agaatctgtc tcacagaacc 120

agaaatagtg tttgtgggag ttacatgttt tgcaatagag atgacatatc ggggtaatgt 180

gcatgatttt agtggtgatt aangagtctg aagttgggan gaatgtcgga cttgtacatt 240

catgagctan gcgattatct ttcggatgaa tttcatgggg aaacgatgat ggtatagttg 300

ccagactcag cgtaatgagg atgngaggtc agtttccaaa ttcctagttt agtaaacang 360

gaaagaaaac gaaacaaaat gatgataatg ggtaatggga ccaaaccatc ctaaaagnag 420

taatacnttt tatcaanngn gnagaaggca anaccatgnt aacggaaaaa aatcccatgg 480

gccctngacg aaaa 494

<210> 3750
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-A4

<400> 3750

ncggtaccgg tccaagaatt cccggggtcg acccacgcgt ccgaaacaaa cgtgaagttt 60

gattcctcgg tggtgaaaac gttctttgta tcatcctccc taagtgggga gttatagcct 120

tcaagttggt ggtaaacaaa caaatgggcg ggcggtggga aaacgtcaaa gcccggtgtt 180

aaagccggga actggacggt gatgggatcc gatgggatca agaacaagtt caagaacaat 240

catacccga agggagtttc tcaattgtca tcatcgaatt tcgggtcaga gccgtcagta 300

tcgggacaag atgaacatag attgtggaat tcgatggtgg aggaagcaga acgaatgcag 360

tattcaaata ttgacgattc gttggatcag gagacgaaga agcggttcgt gtcccatgta 420

aagctccaag tanaaacaaa ngaagacact ggggtacntc aaaacaaagc tnaagtttcc 480

aaacaanaat gtccccaa 498

<210> 3751
<211> 404
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-A5

<400> 3751

taagcagata atggatctca tgaacgacaa cagcaacaat tcacaagacg gcgatcatca 60

gaactaccgt gtcggcgata atggattgga atcgaagaag gaagctatct tccctagcta 120

tgatttccaa cctatgcgcc ctaatgcctc cgccggattg tctcaccacg ctttagatct 180

cgccggatct gttaattcca cggctgctan ggtttgggat gcgtctgatc ctaaaccggt 240

ttcaagcttc ttccgcaaga agttatggct ctatggactc tctcgaacct tcaaagttgt 300

ttgctgagaa ggatcgaaat tcccccgagt cagcgattat atctgcgatc gattggacaa 360

tgaaaggcca tgctgataaa ttgttacaag ttaagggaag ngtc 404

<210> 3752
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-B12

<400> 3752

nnnnnnnnnn nnnnnnnnnn nnnnnnaaac aagattatta gattaaggag gagaacacat 60

atcatatttc angaaagggt gaaaaaacag atcctaaatt agatgtagaa caanaactat 120

tttgtctagt tgtcattttt tcntgtcttg tcctaattta caacttgtca tttcaataca 180

aaatattgan aaaggngaaa caaattgaag aaaaaaaacc aaaaganaag aatttgtcac 240

aagatgttga taatcgcctg cttcttggaa caccctaacg aaaaacaaat catcttcccg 300

angatctctt cttgccaaac acactctact gcgacgtcgt ttggtttctc gttactcaca 360

ttganaaatg ttgactccga atangcctaa ccacagtctg aaccgggact anaccgggac 420

t 421

<210> 3753
<211> 308
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-B2

<400> 3753

tgatgtccct gcttctgtta ttgcagcttt caatagtcag cttcctggaa ctcaatctct 60

tggtgctact ttgtttggtt ctactcctcc tgttcctgac aacatcttgg ctcaagcctt 120

tcagacttct ccaggaactg ttaaacacat caaatccaag ttccaaccca agaaatgatc 180

atcacccttc ctttatattc attactacag ttctgttttt ttctaaaggg aagatctttt 240

tatcttcttt gatttgtctt ctgtnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300

nnnnnngg 308

<210> 3754
<211> 267
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-B3

<400> 3754

gacacagaga gtcacagttt ctatctgcga aggccaacaa atgaaatatt tcaggttaag 60

aaactatgtc tgatgatgtt attgtgaact agttttgagt tataacacta tttttactac 120

atctctgaaa agaagactgt tgatattagt tttgaagaga ttattcccaa acaccatttg 180

ttttggtcaa catgaacaac ttaattgttc tttgtttatt gttgcnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnngg 267

<210> 3755
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-B8

<400> 3755

taaaaaaact gattgagaca gagagaagaa agattgcttg aagaagacga agacaaaagg 60

aggaaacttt cttctcattt caattaaaaa atccattttt ttctctgggt ttttctttct 120

catgtgattg tgtaattgat tcttatcgtt ttctcgcaat cattacggct tcttctgaaa 180

tcaacacgct caatttcctt ccttggaaaa ttttggggtt ttggttttgt tcctgtttca 240

ttcgtgtgag atttgattac ttaagcgctc agatgaaatc atgataatta agaagcacaa 300

gagagaggaa attagagtcc tttggtcaat ttattgggga acttgattgg gatttagtca 360

gcttcaaagt gaggaactga agatggagaa tggccatgan gaaagattgg 410

<210> 3756
<211> 415
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-B9

<400> 3756

ttgattcgtt cgacgttttg tctcctacga ttcgtagagc gtttcagttt tcgatttctc 60

cgtcgtctaa ctcgccgccg gtgagtccac gaggtgactc ggactcgtcg tgttcgttac 120

tgagtcgttc actcgggtct aatctgggaa acgacgtcgt tgcgtctctc aggaatctgc 180

aacttaataa agtgaagtct tctctttcgt cgtcatacaa caatcaaatc ggaggatacg 240

gatccggatt cgggtcgcct cgtggatcgg ttttgggtcc tggtttccgt agcttaccaa 300

ctacaccgac ccgacctggt tttatgaaca tttgggagaa tggcttggag gaagaaccgg 360

cgatggaacg ggtcgagtcg ggtcgtgaac tgcgagagca actgttcgag aagct 415

<210> 3757
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-C10

<400> 3757

acgcgtccgg ttccaacagc tgctatagca cctgcttcag cttgtgctaa gagctgtaca 60

tagtgctctt gttggcatca gaaatagtct tgatcctgaa cataaaaagg aatccatgga 120

aaaatactta ggccccgaca aacaaaggaa gcaggaccaa caccgataaa ctcagattat 180

ccatgttggt gtgacttccc ttttacatat agcatgtgta taggtttgaa tagagtaaaa 240

gtgcagaacc attcttttaa ccatcgaaaa gccaaagaga tgggaaaatt tttggtatag 300

aatataaatc ttttaaacat tatagaatca ttcagtttgt ttgtttcctg tacataaaca 360

ttttcgatct tgctccattg taaatttacc ccaccaagtt tgccaaatga gtgaaa 416

<210> 3758
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-079-Q1-E1-C11

<400> 3758

acctctcctg atcccgtaat gaagaaaacg aagacgatgg tggcttccat ctccaccctt 60

attagacgga cctatccttc aactaaccag tgtaattcac tcgcgacgat tcaatcacaa 120

acccaattgc ctcgcgaatc tctgcaacat cattcttcag ctgagggacg actccgattc 180

tccgggagag ttttctgctc ggaatctggc gccggatgct ggaactgtgg cgagaaagct 240

gccttttttgt tctgtaactc atgccgtagc attcaacctg ttgatgactc cgtcgactat 300

tttcagattt ttggcctggg agaagaagta tgagatagat cctggaagcc ttgaaggcaa 360

gtacaaagat tggcaaaaga agctacatcc tgatttagtt cataacaaat cctaag 416

<210> 3759
<211> 461
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C2

<400> 3759

taacttctac gttgnccngn cccggtcaan aatncccggg tcgacccacg cgtccnaatc 60

aattgcagag ctataagaga aggaatgcaa aatgggtctc tccaatagca gctgttgtac 120

ctaacttcca tcttcctatg cgcagtctcg aggataaaaa caggacaaac acagacgaca 180

taaggtccct tagagtgatc acagccatta agacaccgta tttacctgat ggaagattcg 240

acctccaagc atacgatgac ttagtcaaca cgcagataga aaacggtgct gaaggtgtga 300

ttgttggtgg tacaactggt gaaggccaat tgatgagctg ggatgagcac ataatgctta 360

tcggccatac tgtaaattgt tttgggggaa ggatcaaagt cattggaaac actgggaagt 420

nactcgacta gggaagctat tcatgccact gagccaggan t 461

<210> 3760
<211> 475
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C3

<400> 3760

actttgcccg gcccggtcna agnataaacg ggtcgagcca cgcgtccgca aaangacaca 60

aatgctctca cactcttccg tctccaaacc gacacacacg gcaacctcgc cggaaactgg 120

accggctccg acgcttgtac ctcctcatgg caaggcgttt cttgctcacc atcttcacac 180

cgcgtcactg aactatctct cccttccctc tccttacgag gaccattaac ctctctctcc 240

tccttagacc aacttcgtct tcttgacctc cacgataaca gactcaacgg caccgtttca 300

ccactcacaa actgtaaaaa cctcagactc gtttatctcg ccggtaacga tctctccggt 360

gagattccta aagagatatc ctttcttaaa cggatgatac gtcttgatcn ctccgataac 420

aatatcccgt gggagttatt ncanggagag aattccgggg gttacccggg gttta 475

<210> 3761
<211> 386
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C4

<400> 3761

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aagattcatt ttaccctaag aaaanaantg tcnaacattc ttcagaatcg gcgatcttcg 120

ttttcctctt cgacgaaatc ttcattagcg agtcgtcaag caccatcttc atcggagaat 180

tctgttaaac ttatgccggc gatgacgaan aaangagcac cgttaagtna cattaccaat 240

cannanatcg cctcacgatt acaaaattct gattcggtac attgttcaaa caagtcaanc 300

gaaattgann gatagcacca agtgtttgcg ttaatgccag tttctctanc aatctgcanc 360

aaagcatagt tcctcanaaa gttgct 386

<210> 3762
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C5

<400> 3762

acgcgtccnc tggaacactc tttgtcggat ctgatggcca tggcaaccac ccagagaagg 60

atagtgaaaa ttgtaaagag aaaaatgttg taccacctgt taatgaatcg ccacatgcta 120

aagatactga tgatggcttg atagagatta cagtccctga gctggagatc acccgtgcag 180

aagcagaagc agaagcagaa gcgcatgttt gtgagagtga tgaggactta cccaattatt 240

ctgacattga ggctatgata cttgacatgg acttggaacc tgatgatcaa gataattttg 300

atctcgaagt ctccaagtat caagagccaa gacatgaaaa gaacaatcat aagacttgag 360

caggctgctc attcatatat gcaaagagcc attgcttccc gtggtncaat 410

<210> 3763
<211> 416
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-079-Q1-E1-C6

<400> 3763

acgcgtccgg catgctcgag aattcatgat ccaaagttga aagaaagctt cgagaactct 60

ccgaggcatg attcctatgt gcctaaattc gaggctgagc ttgcacagtt ttgcgagaag 120

ttggtgaatg atcttgatag gaaagttagg cgtgggcgag aacgtcttgc acaagaagtt 180

gaaccggttc caccaccttc tctatcagca gagaaagctg aacaattgtc tgtcttggag 240

gagaaagtta agaacctttt ggaacaagtg gaagcacttg gtgaagaagg caaagtggat 300

gaagctgaag cgctaatgag gaaggtggaa gggctaaatg ctgagaagac agtgttgtta 360

caacgaccaa ctgacaaggt actcgcgatg gctcaagaga agaagatggc antgtg 416

<210> 3764
<211> 495
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-H4

<400> 3764

gcctacaagt ccggaattcc cgggtcgacc cacgcgtccg gtggaagtgt gataggatca 60

atggtcatta tcgtgggact ttatatactt ttatggggaa aaagcaagga taagtctgca 120

tcagtgacca aacaagaacc attagatctt gatattgaag gttgtgggac agcaccaaag 180

gaactcaata gtactgccca tcaagtgtct gcaaaataat aacttcaaga tatatctaac 240

tgtttcccat atcgtcaatg aatgatttct aacttgaact tttattaagt tcaagcccac 300

gcgtccgcgg acgcgtgggt cggagaattg tagtgatcgg agaaaatgag tggcgtggtt 360

gggtttgttg gtcttgantc tttcagcttc gaattngctt cntcgcttct tccgtcctgg 420

gtttaaaggt tcaagcattc cgggataagn tacagaaatt tatgggnnaa gttcattgaa 480

attgggaagg ncaca 495

<210> 3765
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-F4

<400> 3765

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aagtanggag ggtgtcgaaa acgtggctat ggangtggac gacgtggaag agaaggcgga 120

gatgggaaat ggattgtttt ctgaggttgc cagtctgaaa aatgggagct tgagggtggg 180

tgaatgttct aaagctaata gtagttcact cgttgtgaat cgccctgtga ctgatcgtca 240

caagttttga agcatacaga aaggttcttg agagtgctgt gaancggact tctaaactga 300

aagacagacg ctttgttgat ttttttaaan nacagaggtc gttnctttac tacgaanccn 360

tgtcctcctt tttggnnacc agnataangn acccagttnn aggttgtaca acntncaggc 420

atttgtnccc cctttccaca acaagganga cga 453

<210> 3766
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-F5

<400> 3766

acgcgtccga agaagagaat cgttgagatg gagagtgaag atgcttatag aatggcgttg 60

aagactatgg ttaaatgggt gaagaagaat atggatccat tgaagacgag ggttttcttt 120

gctaccatct ctcctactca ttacaagggc gaggattggg gaggcgaaca atgaaaaaat 180

tgttacaatc aancgacacc gatccangac atgaaccatt ggccatcana ctgcagcana 240

accttaatga aagtgatang agangaatta gnccaaagag canagtttcc ggtgacngta 300

cttaacatta caacaactct ctggctatcc ggaaaagacn cgcacacgtc aatccaanac 360

gaaaccattg gaacccccatt ngaccgaaan ggatcaagct agncaaatcc cggctaagct 420

actcaagact gtatnacatt gggtgccttg ccctggncnt caagatactt ggaaccancc 480

<210> 3767
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-F6

<400> 3767

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aatcttccac catgggaaca aagtttttag ctctgggttt gtctctgtgt cttgttctct 120

caagcttcta tcaagtttct tgccaggatg aaggaactgg aagtttgagt actttagatc 180

taattgagca tgaatatcaa atgtcaattc tctccaaggc aatgaagcag tagatcaaac 240

tgagaccagt ggtcagaaaa acagtacagt gtctgataac aacactattt ctttgtctct 300

atctgaagaa cctgcantgg gaaactctta aagaatctgt tgatacatca agctgagtta 360

aggagctgtt actggatgaa gtcgataaac cttcaaagta tgttggacca tattgaactt 420

gaagttccga agcacatatc aatgaactta aagaagctgg gttctgatgg naacaacnaa 480

gttgaggaat ccaaagatga tgnaaga 507

<210> 3768
<211> 505
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-F8

<400> 3768

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aaaatcacga aatctgattt tcctctcttt tgctcgaagc caagtctctg cttttacttt 120

gatccaccaa cttcatcttc aacctctcga ttttaggtaa gattcttaga gtgattttga 180

cttatctaag aatggagcta aagagcatta aggatgcgtt tgatcgtgtt gcgacgaagc 240

agaagctctc ttatagcaaa actaatgaga ttgttcatat gttgtctcaa gaaatcgata 300

aggctttgag catattagag gagacaccat catcaagata ctatgcttct tgatcataga 360

tctatcctcg ctgatgtgaa gaaagtgttt atggagattg ctccaatcac tcaacttgaa 420

gctactgaga aagagctaca tgcggntttg accaaagtac ccaaagttct tgagaaacaa 480

ctgaatccag acatatcaaa nggtt 505

<210> 3769
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G1

<400> 3769

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ataagcgatt gatctctccn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnngg cgctctcttc tacttctctc gatccgaccg 180

tgaatcacta tcggagcaat gactatgatg actccgccgc cgctagatca gcaggaagac 240

gaggagatgc ttgttccgaa tccggatttg gtcgagggac ctcagcctat ggaagttgcc 300

caaactgatc ctgctgctac cgctgtggag aatccaccac ccgaggatcc tccaagtctg 360

aaattcacgt ggaccatccc aatgttcact aggctcaata ccaggaagca ttactcctga 420

cgtatttgtt gtaggcggtt ataagtggcg tata 454

<210> 3770
<211> 474
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G12

<400> 3770

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agtccaaggg ctttgggttt gtcaactttg aaaatgctga tgatgctgct agggctgtgg 120

agtctctcaa tgggcacaaa tttgatgata aggagtggta tgttggtaga gcccagaaga 180

agtcagagag ggaaacagaa ttaagggtcc gttatgaaca gaatttgaag gaagctgcan 240

gnaacttnca cagttcaana cttgtatgtt anaganttttg ggtcctaagc atttcagatg 300

aggaaactta aagagatctt tctccctttt ggtaccgtta catcctagca agggtgatgc 360

cggattctaa tgggaacaag caaaaggctc aagttttgtt gctttcncna actcccgaan 420

aaagcaactg aagctatttc acagttnagc ggtaaaatga tcnaaagcaa acca 474

<210> 3771
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G2

<400> 3771

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ttgagctgca taagaaattt gttgcagctg ttaaccaatt gggatatgag aaggctatgc 120

ctaaaaagat tttggatctg atgaatgttg agaagctcac tagagaaaat gtggccagtc 180

atcttcagaa attccgcctt tacttgaaga ggatcagtgg tgtggctaat cagcaagcta 240

ttatggcaaa ctctgagtta cattttatgc aaatgaatgg acttgatggt ttccatcacc 300

gcccaatccc tgttggatct ggtcagtacc atggtggggc tcctgcaatg agatcttccc 360

tccaaacggg attcttggca aactcaatac tcccttccgg ggatcggtgt ccgcaaccct 420

tcctcctcct cctggcangg aatggttcct tgcaaaaacc aagaa 465

<210> 3772
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-078-Q1-E1-G3

<400> 3772

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atttttgggg gatttttgag gtttaatctc cattgaaaga agctctggca tttctctgct 120

acagtgttgg ttttcagctg cagaattggt gaaaaaagtt tggtgaattt caggagcaga 180

gtatttaagt aattttgggg aattagtgag aaaatggagg agaaaggtga aataagtcca 240

agtggggtcg tcacagttaa gggagatgaa gctttggttc caagaacaga gtttcaacaa 300

aaccctagtt ttctccaatt cgtgagtccc acaacggtag tgactcctct ccctcctcca 360

ccaagctccg tcttccggct ccggtaccaa ccaccgtgac tcctggctca gccacaagca 420

tcaaccggat cagatccacg aaaaaagaac agagggaag 459

<210> 3773
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G7

<400> 3773

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aatccatacg gcggcggatt gggaaccgga ngaaagttcc ggaagccgac ggctcgtang 180

tctcagaaaa ctccttatga tcgaccaacg acttctgtga ggaacgctgg acttggtggc 240

ggagatgtca gaggcggcgg ctggttgtca aaattggtgg atccggcgca gagacntatt 300

acntatagtg ctcanaggct cttcnggtcc ctaancccng gnnaaccgcc tcngggtctg 360

ggtgaggacg ccttttacaa ntccncggga tcacancana gcaactttcc aatanagaag 420

gtgtgaaatn caggg 435

<210> 3774
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G8

<400> 3774

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tctcaaaccg tcacannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnggt gtattcttac ctttgacaaa annnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnggcgcg 240

actattccct tgctcaagcc gttaagtttg ttgctaagaa cgagactgtg atcgtctgtg 300

ctgttagcta ccctttcttg ccttttctta acaactggtt gattagcatt tctagacaag 360

aaacatcaag aaaaagttct tgtgatcgct gaagactatg ctactttgta caaagtcaac 420

gaaaagtggc ctgggcatgc tgttctcant cctccggggt tggattctca atccgcaaaa 480

aaatttggg 489

<210> 3775
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-G9

<400> 3775

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gacgcgtccg cccacgcgtc cgatagtcac catttttttt gtttgtttga cctcaaaaac 120

tcctacgttt ctaagctctt ctctttgctt cgattcccaa aacgactatt tccaaaaggg 180

tttaaagaag ttatgaacac taatccagtg actaatgggt ttgttaaacc tgttcctact 240

gaagaagaac aagcaaagat tgaggaagtg aggaagctat taggtccatt accggagaag 300

ctttcgagtt tttgttccga tgatgcagtt ttaaggtatc taagggcaag gaattggcat 360

gtcaagaaag ctactanaga tgcntaaaga aacttttgaa atggagagtt caatacaaac 420

ctgaaggaga tttgttgggg aaggaagtan ctggttgaaa ccagagacag ggaagatata 480

tagnatcgag tttgtgtcna taaaaccttg ggccg 515

<210> 3776
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-H10

<400> 3776

agacccacgc gtccnaaata agacaanaaa ataaanacaa ngaananaaa ggagaatgaa 60

ccctcacctg cctcttaaga ggcaagagtn nggcaagaag aagaactcac ggttcaacta 120

acactcacaa caacagaaag gaggatcgtg gtggaacaaa atcatggcan acaagacgga 180

tataatttca tcatcttccg ataaagcttc tccaccacca ccatctggct ttcagaaact 240

acttatcctc aangaagtaa ngaaccagtg cttctcttgg gatcanctgg tnanngnatc 300

ttgttgcatc tttagagtcc cctgangagc ttcgcnagca ttgaatccca aaggctataa 360

gcccaaaagt tgtttccatt gggtccttac cattacggtg aaaaagcacc tccaaatgat 420

tcaacagcac aangcctcgg cntctaacag cttttcccna gacgaagg 468

<210> 3777
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-H3

<400> 3777

acgcgtccgc aggaatatcc acctggtgtt atgattgtgc cgatgcatag caaaacattg 60

aaacctttca ggacaacaaa tttggttgtg tttgctccag aaaatggttt gggggaccat 120

caaggggctg attttgtagc tcatggggat gcgttgatag tggatcctgg atgtctctct 180

aaactccacg ttgagctcaa gaaaatcgtt gatgctttac ctagaaagct aattgtcttt 240

gttacacatc accatcgtga tcacattgat ggtctttctg ctatacaaga gagcantcct 300

gatgctattc tagtggcaca tgctaaaact anggatcgca ttggtggttg gctggtaaac 360

tataccccaa gtttctggnn ggataaaaca tctatgttaa cgggtcaaaa nactgancgg 420

ttcatttttg ctnccgggga acacancaga atgg 454

<210> 3778
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-078-Q1-E1-F3

<400> 3778

acgcgtccgg gatagagaag taattgatgt tgatgatgag cttggagatg ttgaaatgat 60

atctgatgat acaagtaggg agggtgtcga aaacgtggct atggaggtgg acgaggtgga 120

agagaaggcg gagatgggaa atggattgtt ttctgaggtt gccagtctga aaaatgggag 180

cttgagggtg ggtgaatgtt ctaaagctaa tagtagttca ctcgttgtga atcgccctgt 240

gactgatgtc acaagttttg aagcatacag aaaggttctt gagagtgctg tgaaccggac 300

ttctaaactg aaagacagag gctttgttga ttttttttaaa gagagaggtc gtgctttact 360

acgaagcttg tcttcctttt ggagacaaga tgaagaacca gtagaggttg tacaacgtga 420

ggcatttgta cctctttcta nagaggagga ac 452

<210> 3779
<211> 376
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-E10

<400> 3779

actcaccgct ccctgaacct ggcttgctct ccacgagcca gcaacatcga gttcttattg 60

atcattcttt ggaggcaagt cacaatagca agcgttcaag aaaatcaagg agattgggcg 120

gttctgattt gaggattggt gtgagccttg gatcgtctca taggaatata naggctgagc 180

aggcggctgc tggttggcca gcttggcttt gttctgctgc ggctgaggct gtccatggtt 240

gggttcctct aaaggcagag gcgttccaga agttggagaa gattggacaa ggaacatata 300

gtagcgtgtt tcgagcacgt gaagtagaaa cgggaaagat ggtggcattg aagaanggta 360

aagtttgana atcttc 376

<210> 3780
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-E12

<400> 3780

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acagcattcc attcatcctc atgaataatt ctacatcagt gaagaggctg gtttcatcta 120

aggcaatgaa atgtttctac ttcagcaaag acaaaactca ggatgatgaa gctaagacta 180

gaaagtttgg ttcagctacg atggctagag gaggatcagg gtctgagttt aattcagata 240

caagtactgc tacttccatt acttcttcct tgcacgtcct ctcagagaca cacagtanta 300

atctcaaagg tatttgtcct cgatgacctt aaaaccgcta ccangaactt cagccgcncc 360

ttgatgatcg gtgaangngg ctttgggtgg ngtcgttcgt tgcgtgaat 409

<210> 3781
<211> 399
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-E7

<400> 3781

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tcaggggttc cgaaagggaa ttgatctcta ttttgaaaga catgatgagc aagcagtgac 120

ttgtgaagac ttctttgctg ctatgcgtga tgcaaataat gcagactttg ctaatttctt 180

gcaatggtac tctcaanctg gnacgcccgt tgtcaaagtg gtatcctctt acaatgctga 240

cgctcgtact ttctctttaa aattcagtca ggagatacct ccaactccag gccagccanc 300

aaagagaacc tacatttatt ccagtgngtt gttggccttt tcgactcaag tgggaaagac 360

attactcttt ccnctgttca tcatgatggt acaatncag 399

<210> 3782
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-E9

<400> 3782

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gatctttgcg ttttgaaacg atggcggaag aacataagca tgatgaatct gtgatcgctc 120

ctgagccagc tgttgaggtt gtggagagag aatcgttgat ggataagata tcggagaaga 180

tccatcacgg tggtgattct tcttcgtctt cttcatcttc tnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnncctct tctccttcgt cttctatgaa atcgaaagtt taccgcttgt 300

tcggacgaga gcagcctgtt cataaggttc tcggcggtgg aaagccggct gatatattca 360

tgtggaaaga acaagaagat gtcctgggtg ggtggtacnt gggggggg 407

<210> 3783
<211> 388
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-F11

<400> 3783

aggagagaat cagctgttcc ctaaccagaa aatagtacag ctcacattcc tctttctggc 60

tctggtttct gtgccgtgga tgttgttgcc aaagccattc atcctgaaaa aacaacatga 120

agctagacat caaggactgt catatgcaca gcttgacgag acagatgaga gtcttcaagt 180

agaaacaaat gggggaggac atggacacga agagtttgaa ttcagcgaaa tctttgtgca 240

ccaactcatt cacaccattg agtttgtgct tggagctgtt tccaacactg cttcttatct 300

tcgtctctgg gctctcagtc tcgcccactc gggagttgtc gtcagtcttc tatgagaang 360

tcctcttatg gcttgggggt ttcaacaa 388

<210> 3784
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-F2

<400> 3784

acgcgtccgc ccacgcgtcc gaaaacatta ctaattatta caagaaacan tcagaaacat 60

catggaggag caaagcaaga acaagatcag tgaagaagaa aaacaactcc atgggagacc 120

aaatcgacca aagggaggat taattaccat gcccttcatc ttcgcgaacg agatatgtga 180

aaaattagcg gtggtggggt ttcacgcaaa catgataagt tacttaacaa cacagcttca 240

ccttccctta accaaagcag ccaacactct cacaaacttc gccgggacat cgagtcttac 300

tcctctcctt ggtgccttta tcgccgactc tttcgccggc cgattttgga ncatcacttt 360

tgcttccatc atctancana tcgggatgga cgttgcttac naatancngg canataatac 420

caacgctaag gcnacccanc aatgtanagg agaaaaaggt ttgtgtacta n 471

<210> 3785
<211> 465
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-F7

<400> 3785

acgcgtccgt ctatctctct cttaatcgat cgatgaagat caggtgcgac gtctgcgata 60

aagaagaagc gtcggtgttt tgcacggccg acgaagcatc tctctgcggc ggctgcgacc 120

accaagtcca ccacgctaac aaactcgcct ctaaacatct ccgtttctct ctcctttatc 180

cttcttcttc caacacctcc tctcctctct gcgacatctg tcaggataaa aaagctctgt 240

tgttctgtca acaagataga gctattttat gcaaagattg cgattcatcg atccacgctg 300

cgaacgaaca cacaaagaaa nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420

nnnnnngtcc tgggatnatc antctctaat cctccncctc tcaag 465

<210> 3786
<211> 466
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-F8

<400> 3786

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tttctactac ttggtgtttg gagtcatggc tgccntantg gcagcgttgg agcttancaa 120

gacgaacaag gatcggatca acacttcgtc ttccttcaat tcattcaaga acaattacct 180

ccncgttttc tctattatga tggctgggga ttggcttcag ggtccttatg tgtattacct 240

ttacagcact tanggttttg gaaaaggaga tattggtcag ctattcattg ctggttttgg 300

ttcgtcaatg ttgtttggaa ctattgttgg atctctggct ganaancagg gtccaaatag 360

gnnatgtgtt anatanngta gtagtntaca nactaagttn catcancaaa gcactctcca 420

cantanaacn gtttggatgg ttgggccgta tccntgggtg ggattt 466

<210> 3787
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-F9

<400> 3787

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cgagacctcc gacgccggaa gttccggtga agaagacgaa gacgaaactc agaatcaagg 120

aatgagacca gaatctgagg atcgaggatc aacgagcgat gatagcgatc gtgaagttgt 180

gattgaggag agacgatttg gtaaatttgt aaatagtcag agttcttctt ctagcaaaga 240

ttcgcctctt tctgtaacgt tattgggatc cagatgttct tgattgtcct atttgttgcg 300

agccattgaa gattcctatc tttcangttt tgcttcctca ttgattacac aatccattga 360

aggcactccg attttagggt agaagttcc 389

<210> 3788
<211> 506
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-G2

<400> 3788

agcttggncg taccggtccg gaattcacgg gtcgacccac gcgtccgctt atttgagatg 60

cttcgtgctt tctcaaggcg ttgcctcagt acatccacaa agtattgtgt tgttgacaat 120

ccttacactg gcgagatcca ttgtaaaatc ccctatttaa gttccgatca aatcaccaaa 180

gtggtggatc gtagcgctgc tgttcaaaag agctactatc atgaatcgac tttggatagt 240

cgcattgaac tttgtnaaaa atttatggat gagatgaaag cccggactga ttctatcgcc 300

actgacattt caaaacagat gggaaagccc ctaagccaag ccaagggaga gattaagggg 360

ttgatcgagc gagcgacagc gatgattgac ctgncaccaa aggcactcgc agacgaagtg 420

ctgcccanac aaggctttta ccgcaagctc gcccgcgagc tgttggtgtg ggtgttggtg 480

tantggcccc ttgngaaata gcctct 506

<210> 3789
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-G3

<400> 3789

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ttgaatgatg aagaatatga taagctcaaa ctcaaactaa agattgatgg tagcgacatt 120

gtgagcgagg gtccaagatg cagtctccgt agtaaaaagg tgtatagtga tctcgctgta 180

gattatttca aaatgttatt gttgaatgtt ccagcaaccg ttgttgctct cggactcttt 240

ttcttcctgg acgacattac aggttttgag atcacataca tcatggagct tccagaacca 300

tacagtttca tattcacttg gttcgctgct gtgcctgtga ttgtatatct ggctttatca 360

atcaccaaat tgatcatcaa ggacttcttg atcttgaagg gtccttgtcc gaattgtgga 420

aacggnaaac acctcccttc tttgggaaca attctgtcaa atctccanc 469

<210> 3790
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-G4

<400> 3790

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acattattta cgattataca ctttccaaca tggcggcctc tgtagataat cgccaatacg 120

ctcgtctcga gccaggtttg aacggcgtgg ttcgttctta caaacctccc gttccaggcc 180

ggtccgattc ccctaaggcg caccagaacc aaaccaccaa ccaaaccgtg ttcttgaaac 240

cagccaaggt tcatgacgat gacgaagacg tgtcgagcga agacgagaac gagacacaca 300

acagcaacgc cgtgtactac aagggagatg atanganant ccaacgccga ncttgaaccg 360

tccgttttgg accccgaggg acgaaataca cggctgatag ctggatcgag cgtaaccctt 420

ccatgggnac gtctcacaag gaaacatccc ttcaantccg agggggggcct c 471

<210> 3791
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-G5

<400> 3791

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ccagttatgg ctatggccgg agaatcttcc ggcaaaaaaa ttggagactg tgacggtaaa 120

gtcgcgggga acagacagcg aaaggtgggt cttatttacg acgagacgat gtgcaacacg 180

acacacctga cggcgaggat caccctgagt gtcccgaccg catcagantt atctgggaga 240

agcttcagct cgccggagtt tctcaaagat gtgtggttct tggtagtagc anagcagaag 300

ataagcatct ccaattggtt cacanaaagg accatgtnaa tttagttaag gagtantagc 360

acaaggcaga aagattancg agagaaacna ggattgcntc acatgntgna gttngattta 420

tctgaanggg ggttcatcct gaangccgca aatctt 456

<210> 3792
<211> 463
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-076-Q1-E1-G7

<400> 3792

acgcgtccga gaagttttac taatttaaat ccttgctacg ttctcttacc gttcttcctt 60

gtcctagcca cgaatgcaac acatacaaac aatttcctcc caaggccacg gactgggtat 120

tacggtagtg catgctggaa tgtagaatcg atagttcggt ccgtggttga gtctaactat 180

cttgctaatc cagccaatgc tccaggcatt ttgcgtatgc actttcacga ttgtttcgtt 240

caaggctgtg acgcctccgt tctcctagcc ggacctaact ctgagcgaac ggcgattcca 300

aatctatcgt tgagagggtt taatgtcatt gaagaagcta agactcagct tgagatcgct 360

tgtcctcgaa cagtctcttg tgctgatatc ctcgcactcg ctgcacgtga cttcgtccat 420

ttgggccggt ggaccatggt ggccagttcc attggggaga ctc 463

<210> 3793
<211> 508
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-E1

<400> 3793

gttccttggc cgnaccggtc cggaattcac gggtcgaccc acgcgtccgc ccacgcgtcc 60

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tctcctctct cttgaaaaat ctataaccga tttctgcaat ggcgacttca gattcgaggt 180

cttctccttc atcatccgac accgaattcg ccgatccaaa tcctagctcc gatccagaga 240

cgaattcgga gcgtgttcaa agtcaattag agtcaatgaa tttatctcaa cctagcgaag 300

tctctgatgg tagccacacc gaatttagcg gtggcggcga tgataatgat gatgaggttg 360

catcggctaa cgggaacgaa ggcggagtta gcaatggagg tttattgcgt gaaagtgtgg 420

cgggaactag cggaggagaa gttttgttaa nggcggaaaa tcccggtggg aatgggaanc 480

aggtgaagaa ncaccgagtt ccgactat 508

<210> 3794
<211> 447
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-A8

<400> 3794

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gctaccgacc actcacatca caagtcacaa cctccgcctt gagatgagan nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnntta accgtccact cgccgcangt ttcagttcct cttcatcagg 300

gtgctanctc tggattcgnc ctacgacgtt nttgttgttg gtgccggaca ngctggatgc 360

gaggcgggtt tagcctcggc tcgantagga ggctagtacn ctgcttctna nattaaacct 420

cgatngaata ggcttgggag nccgtgt 447

<210> 3795
<211> 498
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-B1

<400> 3795

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acggaaggat tcttcagaat atctgatccg atatcaagaa gccccaagtt cgcttgaatt 120

ccgtctgagc aatggctttg gtcttgcaca cgtacaaggg aaacaaaagt gctgagaagg 180

cactcattgc agcagagtac gttggtgtgc aaatcgatgt gccctctgac tttcagatgg 240

gtgtcactaa caaaacccct gcgttcctca agatgaaccc tattggaaag gtcccgtact 300

tganactccc gaagggtcaa gtattttgaa aagcaaacgc aattgccccg ttaangttaa 360

cccgattgaa tggngacaac tcccttgaac ggattctccc tgntcganta tgcncaaatt 420

ganccaatgg gatgatttnn cctcnantgg nagatntaag caaanancct nanggggggt 480

ncggcccaag aaaggggc 498

<210> 3796
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-B12

<400> 3796

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ccattggtgt atttgaacaa tgttgctgaa ggatgtgttg gtcgtgttgc tgctaagctt 180

gagatgatgg aaccgtgctc tancgtcaaa gacaggattg gttttangca tgatttctga 240

tgcagaaaan aagggtctta tcaaaccaag nagagagtgt gctgattgag ccaacaagtg 300

ggaacactgg gagttgggtt agcattcacg gcagctgcca aagggctaca ngcttaacta 360

ttacaantgc caagcgtcca aggagtactg tnnaggangg aatcattccg cttaacnctt 420

<210> 3797
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-B9

<400> 3797

aaacctaaca aaagcttcag acttcaattc tttagctacc tctctcccat ggcacgttcg 60

aatgtaccaa aatttggaaa ctgggaagct gaggagaatg ttccttacac agcttacttt 120

gacaaagctc gtaagactcg agcacccggt agcaagatca tgaacccgaa tgacccggag 180

tataactctg actctcaatc acaagctcct cctcatcctc cttcttccag aaccaaacct 240

gagcaagttg acacggttag aagatcacgt gagcatatga gaagccgaga agagagcgag 300

ttgaaacagt ttggtgatgc tgggtggttc atcaaatgaa ggctgctanc aaagagncag 360

ggaagagctt ctcagancaa t 381

<210> 3798
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C1

<400> 3798

acgcgtccgc acgatccgag catcttccgg atccggatcc cttaacccgg atcaaaaccg 60

taagaaatct gctgcttggt gggctcctct cttcggttta ccctccgatc cagattacct 120

caacatcgaa agctcatgct ccaccgtgaa tccggataaa accgatattt ccgggtcggg 180

tcaaaagttt cgtcgcggtt gttttacgga ggagaaagct aagcagttga ggaggaaaac 240

cgcagaagct tccacgttcc atgacgtaat gtatcactcc gccattgctt ctcgacttgc 300

gtctgatatc accggccgag tcgaggattg aaacggattc ggggtcagat ctggagacga 360

atcaattaat gaataattaa tcnttttttt ccnaattcaa gtgttcctgt aggatgcaaa 420

ncatcttcca accggtgctc ctttttcatt tgaanccgtt gggccttg 468

<210> 3799
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C10

<400> 3799

tatcaggaaa tgttggcaaa agcgcttgct aaacagtttg gggccaaatt gatgattgtt 60

gattctcttt tgttgcctgg gggatcacca gccagggaag ctgaatcctc taaagaaggt 120

tctaggcgtg aaaggctgtc tatgcttgct aaaagagctg ttcaggctgc acaagtattg 180

cagcataaga aaccgacttc aagtgttgat gctgatataa caggtggctc aacattaagc 240

tctcaggctt tgccaaaaca agaagtgtca acagcaactt ctaaaagtta cacattcaaa 300

gcaggtgaca gagttaaatt tgtaggtcct tcggcttctg caatttcttc tcttcaaggc 360

cancttangg gaacgggcaa ctggttccca anggaaaa 398

<210> 3800
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C11

<400> 3800

atgatcatac caataacaga gctttagatg tagcagtaaa tggaacaaaa agaagaagga 60

ccagtgattc ccctacctta cccaacaagt tggatggcaa aaatccaagt aatatcctaa 120

agaaggctcc tggagatacg agctgggcaa caaaagaact cctcgagttt gtgtcgttca 180

tgaaaaatgg cgatacatct gttctatctc agtttgacgt gcagggtctt ctgcttgact 240

atatcaagan aaaaaatctt agggatcctc ttcagaagtc tcaagttctt tgtgaccaga 300

tgcttgtgaa gttgtttgga aaacagcgag tggggtcact ttgaaatgct tangcttcta 360

gaagtctcan gtccttattc aaggagaaac ccgaaanggg gctaaag 407

<210> 3801
<211> 468
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C3

<400> 3801

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ttctatcaac caaacaaaat ctcgccgcta atttctctct ctatggcgct ttattgccgt 120

gatacactaa tcatcatctt ccaaaagctc accgtcgccg atctancgcg tgcgagctgc 180

gtctgtaagg tttggaattc tgtagccaca gaagacgatc ttgttgtatc tgctttcacg 240

gctccatggc ggatcaaaga acttgttgga agaccagctt ctgtttcgtt ttggagagat 300

aacggaatct ggaaatttgc tatttctcat cggatttgtc gtggtgatag tgtgactagc 360

ctcgccgtca aatacgccgt tcaggttatg ggacataaaa gcggctaaac aacatgatga 420

gcgancattg gtatttactc aaggagacag acngcttatc ccaataag 468

<210> 3802
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C4

<400> 3802

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cctccagttc acccncctcc tttcgctgtt gcaccccatt gaacctcaaa tcgctgcgtt 120

ctcatcgccg tcctaagatt tctcatattt gttgcgacgg aagctctatt tccggatctg 180

gcctcggcga tcccgatctc gagtttctcc aagcctcngt cntcgttgca gngacaagta 240

tgcattacaa aatgcggcga catggtttcc ggcaagattc aatgtggcaa acttcnaggc 300

ntttgcctcc cttttctatt atagctaatg aatccaaggt tggtgttctc cctatnggga 360

cttggatttc tccgtcaatt caagcanncc cacnaanttt tctcangatc cctggtgatg 420

gtgactaatt gcntccctgt tattngttgg ggga 454

<210> 3803
<211> 471
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C6

<400> 3803

acgcgtccgg tagctctctc acttcagctt tccaattaaa gggaacaaag ctttgatttt 60

tgccgcagtc agaagcatta ctttgcaaga acaagtgtgt aaacaaagat gaggagctcc 120

caaaacggcg gcgcaatggg tggacgagct gccggaaccg gcggaggagg accgtcggct 180

ccagttgaca aagaagttga ctacgctcag tacttctgta cttactcctt cctataccac 240

cagaaggata tgctctccga ccgtgtccgt atggatgctt acttcaacgc cgtcttccag 300

aacaaacatc actttgaggg caagactgtt ttagacgtgg gcaccgggga gtggaattct 360

tggaanttgg gtcangctca aagctggtgc caaggaaggt ttaagccgtt gaagctacta 420

aganggntgn tcatgctcgt gnccntgtca aagccaagaa accttgacca t 471

<210> 3804
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-C8

<400> 3804

acgcgtccgc ccacgcgtcc gcccacgcgt ccgactctct ctctctctcg ttgcaagcaa 60

cttgttttct gaatccaaag aagacgataa cgatgaatgg agctatagga ggtgaccttt 120

tgctcaattt tcctgacatg tcggtcctag agcgccaaag ggctcacctc aagtacctca 180

atcccanctt tgattctcct ctcgccggct tctttgccga ttcttcaatg attaccggcg 240

gcgagatgga cagctatctt tcgactgccg gtttgaatct tccgatgatg tacggtgaga 300

cgacggtgga aggtgattca agactctcan tttcnccgga aacgacgctt gggactggaa 360

atttcaagaa acggaagttt gatacagaga ctaaggattg taatgagaag aanaagaaga 420

tgannatgaa cagagatgac ctagtagaag aaggagaaga ag 462

<210> 3805
<211> 459
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-D1

<400> 3805

acgcgtccgc tcttttaaat caaaacaaaa tatctctttc ctgttagaga caatggacgg 60

attgatcaga ggtttggtcg acgtggctat cggaggaaac caacgccgcg gcggagacga 120

tggtggtgat gatgaaggca actcgaggga cgagagatcc agatctactt gggctaatgt 180

ggtttccggt gaggaagagg atcagaatcg cgcgggagga tcgtcgcacg gccgtcgcca 240

naattcagag gagaatcaat gggagaagaa gggcgaaagg cttcccacaa ggcattcaca 300

atcacatgag gaggaccagg aagagaatac atatgcggct aaaagtgagc gagaaacaan 360

acttctcgga gaagccagca anaggaaaat gatggttggg aaactgtggg caaaaagaaa 420

cctgcaaggc aatcacataa ggtccagaan ggagcaatg 459

<210> 3806
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-D12

<400> 3806

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ttggcaatct ctcttcagga gcaactgacc atgatattaa agagtttttc nctttcncng 120

gtgaanttga aancatcgat atccaaagta acgagcatag tgcttatgtc acatttaaag 180

aaactcaagg agcaganact gctgtgctct tatctggagc gattattgcc gntcaatcag 240

tcatcattga gttggctccc aactacagtc caccagcagc ccctcatgct gaaacacaga 300

gcagcggtgc agaatctgtt gtccagangg cagaagatgt tgtgagcagc atgttaagca 360

nagggtttca ttcttgggna a 381

<210> 3807
<211> 501
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-A6

<400> 3807

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cgagaaacaa gtgcttgacg agttggtgaa gctattgcag agtcgagatt tgcgtggcga 120

aaatggaaac tggaaggaat ttttacatgt ttacgacaaa aatgctgatt caccaagtga 180

tccttcgagg cgttctcatg aagatttggt tcagtttctg acaactttta agaagaaaga 240

agatttgcaa cttctgaaat gtcacgccan tcatcntctg attganaatt tgaaccaaga 300

ntcccaagat gaagacactc ctgagcagat gctaagttag attgacagtt gagcatccga 360

nttacncgtt agactattct ttcaaggcca tactcagagg actgggtttg tatcccgatg 420

ttggaatgan natganaaag ggtgaatgng aatcaactaa catggganct gttgantgtg 480

acaagggttc cgttgttgaa g 501

<210> 3808
<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-D9

<400> 3808

cgatgccatt ttccgcatca atctcatcgc cttcttcttc tgtcgcgctt cttcgatcgc 60

ctctctcttt cttcatcttc actcccaaaa ccctaatctt caccagaacc aggatctctg 120

gtttcccttа tcttgcttcc cggcgatccc gcgatttcat caacgggagg gatgatttcg 180

ctgacgatac gaggagctgg aaccggaaga tcaaaccgga gtatgggttc nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntg gatctgttac 300

ttagatttgt anaaaatgtt ttcagaaaga tttcnaagag agcaaggaaa gctgtccgat 360

taattttgcc cggttcgatn tcg 383

<210> 3809
<211> 382
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-C6

<400> 3809

ctaatgagat tgcaacacaa aacaacaatc aaagttttgg aacagaacgt cagataaaga 60

taccagcata catggtgagt aggaactcta atgatggtta tggttggaga aaatacggtc 120

agaaacaagt gaagaagagc gaaaacccta ggagttactt caagtgtacg tatcctgatt 180

gtgtttccaa gaagattgtt gagacggctt ctgatggaca natcactgag atcatttata 240

aaggtggtca taatcatcct aagcctgagt tcaccaagag accatctcaa tcttcattac 300

catcatcggt taatggggag gcgcttgttt aatcctgctt ctgttgttan tgaaccctca 360

atgatcaagt cagagaactc tn 382

<210> 3810
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-C8

<400> 3810

catttgaagc gcggtctttt gaagcatcta aagcatccat tgatatgaag gtatccacct 60

ccgcaatggc ttcaagcatc agccccgcta ttggtaaaat tgaacacatg gacgcaggct 120

ctcctgcaag gccaacccca attcctaatg gaattgaggc aatgtcaaga actatggaaa 180

agccaagaaa cttggactct gttgataagt ctaaaccttt agagctcaca gaaattgttg 240

atccgactca gtgccgacaa gtgacaatgc cagatagcaa ggactctgtt agcaaggttg 300

ctcggcttct ttacacaaat tctggcgttg gtgttttggc tcctggatna aatggtgttc 360

aaagactatg gaagtggatn cgcaatgagc aaaatccanc tgggaaagna actgcctagt 420

g 421

<210> 3811
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-D3

<400> 3811

aaaaanaana gatccaaatt acanccatgc cttcggagtt aacaccagga agaacgatcg 60

gaactaaana actcaatcgc cgagttccac acataccaac tcgatccagg aagctgttca 120

tcactccacg cgcaacgaat ccacgcgcct ccggaactcg tctggtcaat cgtacgacga 180

ttcgacaaac cacaaacata caaacacttc atcaaatcct gctccgtcga acaaaacttc 240

gagatgcgcg tcggatgcac gcgcgacgtg atcgtcatca gtggattacc ggcgaacaca 300

tcaacggaaa gactcgatat actcgacgaa cgaacgggag aagttaccgg gattcaagta 360

atcatcggag gcgancatan ggtggacnna attannaaat ccgttacgaa cggtgcatcn 420

ggttcgagaa aa 432

<210> 3812
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-D6

<400> 3812

actttcaacg atgccatggg tcttcgctca tgcaggttac gacgtaggca agaaggcgcc 60

aggacgttgt tctcgctacc ttaaaggttg tgaagaccga gatggacgat caggttatga 120

ggcttatcta gttagtcaca acctcctcaa cgctcatgca gaagctgttg aagttttccg 180

ccaaaaggtt aaaggtggga aaattggaat cgcacatagt ccggcttggt tcgaaccaca 240

tgatcttaaa gattcaaatg acgttccaac tgttanccgt gtacttgact ttatgttggg 300

atggcatcta nacccaacta cttttggcga ttatccacan natcatgaaa gaccttcttg 360

gncacagatt gcccaaattc acttcttcac naagcaanac aantgaaacg ttcgacccga 420

ntt 423

<210> 3813
<211> 420
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-F5

<400> 3813

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ggaagagaga gttattcact ggtatgagtt cgtcgtttca ttgagattat acacaaaaca 120

agattataac ttttttgctg ggttttggag actatggctg gtggtaacga agtcaacctt 180

aacgaatgca agagaattgt cccactcaac acatgggtcc tcatttccaa tttcaagctt 240

gcttacaaag tcctccgtcg ccctgacggt tctttcaacc gcgacctcgc cgagttcctt 300

gaccgtaaag ttcccgccaa ctctttcccc ctcgacggcg ttttctcctt cgaccacgtc 360

gactcaacaa ctaancttct caccangaat ctaacaaacc tgcgtctctc cttcatcang 420

<210> 3814
<211> 417

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-F7

<400> 3814

atggggaatt acaagttcag aatttcagag atgctcccaa atgcatggtt ccacaagctc 60

aaagacgtga ctaaacactc taaacccaaa aacaaagctt cttcttcttc ctcaaacact 120

tgtagcaaga agaaaccttc ctcagattct cttcctcaac actcttattt ctccaacagc 180

ttantagcna acaatcctcc tcaccataac tcaccangaa antctcttca cacaaaanag 240

atgagtanna ganagacact ttacaagcca tcccttaaan ctttgactcc tccntcgtct 300

tcttgtatcn gcaaggtttc aanaangagc aagatcaacc gatnanngat tcgtcttaan 360

agcttgttcc cgggcnattt gaaacctccc cctgagtcgt ttgtgtagaa gtttcna 417

<210> 3815
<211> 428
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-F8

<400> 3815

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acaatagccg tcgatgatcc tgtgtgccca acgacgtcca aactaagccg agcaagtttc 120

cctaatgggt ttgtgtttgg cacagctact gctgcgtttc aggttgaagg tgcaattaat 180

gaaacttgtc gtggacctgc tctatgggat atcttctgta agagaaatcc agagagatgt 240

agtggccaca acgccgatgt ggccgttgat ttcttccatc cgttataagg aagatattca 300

actaatgaag aatcnaaaca cagacgcatt cagactctca atcgcatggt caagaatatt 360

tcctcatggn gagaaaagga gaanggantt nagtcaagct ggnngtgaaa ttctaccang 420

acctgaat 428

<210> 3816
<211> 445
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-G8

<400> 3816

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ggttatcgtg tcacaggaga gaagctacag aagttgatgg agaaatcgca gcgatagaca 120

atgtaaagat atacaaatat agagagatac gtcaggccac tgatgatttc agtgctgaaa 180

ataaaattgg agaaggaggg tttggttctg tgtacaaggg ctgtcttaaa gatggaaaac 240

tcgcggctat caaagtcctc tcggctgagt caagacaagg tgtaaaagaa ttcttgactg 300

agatcaatgt gatatcagaa atacagcatg agaatttggg ttaagttgta tggatgctgc 360

gtggagggga atcataggat tcttgttaca atttccttga gaacaataag tccntgataa 420

gacgccttcc tagctggggg ggcta 445

<210> 3817
<211> 489
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-H2

<400> 3817

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aaaaggtttc gacacgangg agcttgaaga gctctaatct tgttgtgccc ttgacggatt 180

cgcactctgc tgttgtttct tctcagccaa gaaaccgtgg aggtagagta atgtcttggt 240

tattccctaa gttaaagaag anacannaga gtaattcgat ctttanttca cctaagtata 300

actgagaagt cagaggaagt ttctgaggtg ttgaangatt ctggttctgg tgttgagaag 360

ttgaagagga gaattgatgn aagcaaaaca gaagtaggga tgctgcgtta acacaaagtc 420

tcaaanatga aatcctcatt gggagagtta aagtgacnaa gcttcagtac cttgggnaaa 480

gttactgtg 489

<210> 3818
<211> 420

<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-H5

<400> 3818

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tagagaagat ggcatcgatt gatgttcatc ttcgtcaact ggttcctggc aaagttagtg 120

aagacgacaa gcttgttgag tatgatgctt tgcttcnaga tcggtttctc gatatcctcc 180

aggatttgca cggtgaagat ctccgtgaaa ctgttcaaga gcttnatgag cattctgcag 240

aatacgaagg gaagcatgaa cctaagaagc tagangagct agggagtgtg ctaacgagtt 300

tagatccagg agattccatt gttancgcta aagctttctc tcanatgcgc taaccttagc 360

caatttggct gancgaantg cannnttgct tatccnccgt agcgatcaag aagctgaagn 420

<210> 3819
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-075-Q1-E1-H7

<400> 3819

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aaggcctcct cacttaaaca atatttacct agcaactcag aggccggaac agcttttgag 120

aagaactcag ttaatggagc gctgggctag atgggagatc agcaattttg aatacttaat 180

gcagcttaac acgttggctg gccgtactta caatgacatt actcantatc ctgttttccc 240

gtggattatt tctgacaaca gttcagaaag tctggacctt tcaagatcca tctancttca 300

ggagatcttt ccaagccana ntggtgcatt gaanccanga gcggctcann gnantttcaa 360

ggagccggta ttccannctt ccgaagatcc agttattccc aaaanttcc 409

<210> 3820
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-075-Q1-E1-H8

<400> 3820

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actttagtgg atcaatctct tttttcttct ttgcagggga tattacagat gtagtagctc 180

aaaaggatgt ccggcgagga agcaggtgga gagaagccgt gtggaccctt ctaagcttat 240

gattacttac gcctgcgacc acaatcaccc tttcccttcc tcctccgcta acaccaaatc 300

ccaccaccgc tcctccgtcc gtcctcaaaa ncgcaagaga aagaggaaga atacnaagag 360

gaggaanaag aactaaccgt caccgccgca gaggaaccac cggcngggac ttgattcaan 420

gccacgt 427

<210> 3821
<211> 451
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-A1

<400> 3821

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnggg aattttgatc ctttggnccc 120

cattgctcgc ttgaattacg aatcagatat cgccgatcgt cgtagatctg cgttgatact 180

gtccggctga gtaaacaggg tgaacaaaaa ccaaaaacag agaggggttt taaaaatcct 240

gaagaaaatc gcatgaattt gtttggaagc ctgatttttt catcttcgat ttcgagccac 300

ttcacgactt gtcntctcat ctttantccn tcatttctct ccccagntnn nnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnncn tttggatcaa 420

atgganaaag gaaatcattg gnggtccaag g 451

<210> 3822
<211> 424
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-075-Q1-E1-C4

<400> 3822

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ttctccatct ctcaaacctg ccaaaaacca ttcctttaaa gcattgccgg cgcaatctcg 120

agattccttc tctttcccac atacctccaa acccaccaat ctaccgttga ctctctcctc 180

ggctcgttct gtggcacgcg acatttctca tgcggattcg aagaaagagc ttcttaagga 240

tccggatgcg ttgtggaagc gatacctcga ttggttttat cagcanaaag agcttgggtt 300

gtatctggga tnttactcgg gtcggattta ccgatgagtt tgtggctnan atggagccaa 360

ggtttcaagc tgcgtttaag gctatggang atcntgaaaa agggtctata gccaaaccct 420

gatg 424

<210> 3823
<211> 499
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-076-Q1-E1-A5

<400> 3823

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ccgctcttcc attcaaatct cacattccct cttcacaaca acagcttcgt attcgctcat 120

cttcttcgct ttctgatctt ggaaatcgca ggcattgttc gtctactcga ggatttcaat 180

tttggtcatn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnaccgg cggttcgtat ttccgacggg aatctaatca 300

tcaaaaaccg gacgattcta accggtgtac cagataatgt catcacgacg tcagcatcgg 360

aagctggacc ggtagaagga gtcttcgtcg gagctgtatt taacaaggaa gagagtanan 420

acatcgtacc gatcggtacg cttcgcaatt cncggtttan gtcntgtntc cgggtttaag 480

ctcctggtgg atggccnag 499

<210> 3824
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-G10

<400> 3824

ctttagggtt tataagaccc aaacaaanaa cattcatcag tctcaattca aaatcctcca 60

tcaatggaga aatacgagaa gctcgaaaag gtcggtgaag gaacctangg aaaagtctac 120

aaagcaatgg agaaaaccac cggaaaactc gtcgctctga agaaaactan gctcgaaatg 180

gacgaanaag gtataccacc aacggctctc cgtgagatct ctcttctcca aatgctttct 240

caatcaatct acatcgttca gtctcctctg cgtcgaanat gttattcaat cgagnagatt 300

cgactgtttc ncantctccc aaatccaatc tcganctcgt ttttgagtan ctcgacacng 360

atntcaagaa atttatagat tncca 385

<210> 3825
<211> 443
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-G2

<400> 3825

cgtccgnaag cagttacatg atcaagtgat tgttgtgtct tgttangaaa gcctttggtg 60

tcgggtgctg cgcttggtat ggaagggcag cttacggttt ataatcataa cggaggcccg 120

tgttaccggt gtctttttcc cactcctcca cctacctcag cgtgccaaag atgttctgat 180

agtggagttc ttggagtagt gccaggtgtt attggttgtc tacaancgct agagacaatt 240

aaactcgcaa gcctggtggg agaaccactc tctgaacgga tgcttctttt tgatgcttta 300

tcagcaagga tgcgcattgt caagatcaga ggcaggtcat cacagtgcan cgtgtgtgga 360

nacaattcat ctttcaataa gcanacnttt aaagattttg actaagaaga cttcactcaa 420

tttccgttat ttgcgggcca ttg 443

<210> 3826
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-071-Q1-E1-G4

<400> 3826

gtacanatca taaattcccg ggcccatcgt ccgantctac ttctttttcc catcaccata 60

tgaaaaggca gagacnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnaggt tacaatgatg tttaatgaga tgggaatgtg tggaaacatg gatttcttct 180

cttctggatc acttggtgaa gttgatttct gtcctgttcc acaagctgag cctgattcca 240

ttgttgaaga tgactatact gatgatgaga ttgatgttga tgaattggag aggaggatgt 300

gggagagaca aaatgcggnt taaacgtctc aaggagcagg ataaaggtat nnaacgtgtt 360

gatgctgnta aacaggangc agtctcaaga gcanagctac gagggaacgn naatgtccan 420

gagctcaagg aatnggatct tgaagttag 449

<210> 3827
<211> 425
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-H1

<400> 3827

tgctttcacc aacccactcg acggagtctc caacgccttc ctcctcattc tccactctca 60

caccaccaac ttctgattcc agatctcaac gatgcaaagc tccgccgtan tctccctcnc 120

tccgtcgctt cctctcctaa aaccacgtcg gctctctctc cgccaccatc ccataaccac 180

cgccgcttct tcaagcgatc taaacgtttc tccaaatgtt gtctctattc cttctttatc 240

tcgtcgatct tggngtctcg cttcgtctga ttcgnntctc cgtgcttggt ccggtgttcc 300

ttctccgatn tctcantcct tanganncna atcgtttnan gaancgccgn tantgcagtt 360

cctgaaagtg ctgangaagg tgataanagt gggtaaattg angaagggtt ttgggaacgt 420

ggngt 425

<210> 3828
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations

<223> Clone ID: LIB22-071-Q1-E1-H10

<400> 3828

acgcgtgtan canaagtgcc aagttccctg gagtgccata cacattcttc tcgcagagac 60

aaggctgcaa agtttctctg taccaagatg ctcatattcc agacaacttt gtccctaaga 120

attcctctcg ctggagggaa gaactatnag cctcaaagat gttgggagga tatttttgat 180

gctnttagca atgcanaaca cttgatcnac attactggtt ggtctgttta cgccnagatt 240

gctttagtga gggactcgag gaggcctaag cctggaggtg atgtgaccat tggtgagcta 300

ctcangaana acgctactgg aangtgtcan ggttcttntn cntgtttggg atgacagnac 360

ttctgttgag gtgctgaana aaggatnngg ctcatgggct actcatgnat ga 412

<210> 3829
<211> 435
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-H3

<400> 3829

caactcangt agtcagcggg ggaataaata aagtcaaaga tggttctaat gggacatgct 60

cgaagaaaag cacaccaggt ggtctgatat atcctaatca gatcagcatg tctgctcacg 120

cgagtgcaaa taaggtcggc agacctggga agaaaagcaa agtttttatg gaagctgctg 180

ctaatggatt tgttgagaac cctctgagat ctgtttcagt atcaaagaca gcgaatacag 240

atgccaaaat ggatcaggat tacaaacttc atatccaaag ttcaactaga cgttggtctg 300

ctgcntcagt attggataca cggaagccct taattcaaaa ggccagaaca ngatatcaag 360

canagattgg ngatgatgag attggcttta gaggcaggca gcggctgcag aggatgcagc 420

acccccntgg atgaa 435

<210> 3830
<211> 493
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-H4

<400> 3830

acgtttgccn ggcccggtcc aaaattaacg ggtcgacgcn cgcgtccggt tttcggcata 60

cttttcatgg agattaaccg tggtggccat cccaacactt gttcttcttc taatcccagg 120

gttgatctat ggcaaatacc ttgttcactt atcaaagaaa tcttttaaag aatacaccaa 180

agcaaactcc atcgtggaac aggctctaag ctccatcaag acaattcttt cattcacagc 240

cgaaactcaa ataatcaaga aatactcgga agtcttggaa agacacaaaa agcttgggtt 300

aaagcaaggt cttgccaaag gtttagccgt gggaagctca anggatttca ttcaccattt 360

gggcttttct tgcttggtac ggaagcagat tggtgatgca caaacaagaa accgggtgga 420

cgcatttatg cagctgggat cnccttcgtc ntgggtggaa tctctctaag gacggnactg 480

actgaaataa gga 493

<210> 3831
<211> 385
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-H9

<400> 3831

tatctctctc ttaatcgatc gatgaagatc aggtgcgacg tctgcgataa agaagaagcg 60

tcggtgtttt gcacggccga cgaagcatct ctctgcggcg gctgcgacca ccaagtccac 120

cacgctaana aactcgcctc taaanatctc cgtttcnctc tcctttatcc ttcttcttcn 180

aanacctcct ctcctctctg cgacatctgt caggataaaa aagctctgtt gttctgtcaa 240

caaggataga gctattttat gcaaagattg cgattcatcg atncacgctg cgaacganca 300

cacaaagaaa cacgatnngt ttcttcntan aggggttaag ctctcnngca acatcgtctg 360

tttacaaacc tacttcggaa atcnt 385

<210> 3832
<211> 393
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-A2

<400> 3832

gaaaagtacc caaatatatt ttcccagagt tcagtttttg ggaggtttcc atattttctg 60

ccgagcttag ttatatccgt ctatgctact gcggttctca tcgcttgctg gtggcttcct 120

gaaactcttc atacacgttg tagaattgca caagggagac ttaatccaac agagctaaac 180

gatgatgaaa gtagaggagg aggacttgat gaacagaaaa taattaataa gccaagtctc 240

ttgaggaatc gtccattgat ggctatcatc attgtttatt gtgttttttc cctccaagag 300

atagcataca atgagatatt ctcactccgg gctgttaatg accgaaacta tggnngattg 360

agcttctcan cccaagaaat tnggggggaaa ttt 393

<210> 3833
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-B5

<400> 3833

ttttgaagta actatagtaa gattgatcag caagcaaaat atggctcaaa aggttgaagc 60

aaaaggaggg aaaggaggca accaatggga cgatggatcc gatcatgacg ccgtgaccaa 120

gattcaggtt gcagtaggcg gaatgggaat tcaatacatt cagttcgatt acgtcaagaa 180

cggacaaacc gaacaaactc ctcttcgtgg tatcaaaggc agtaccattc caactgatcc 240

gtttgtgatt aaccatcctg aggagcatct agtttctatt gaaatttggt ataaacctga 300

tggtcttatt caagggctta ggttcatatc caacaaaaag acttctcgtt tcaatggnta 360

cnattgtggg acnaacannn nnttccccaa nttttnngnc acncgnaant tcatgggctt 420

tccaggg 427

<210> 3834
<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-C5

<400> 3834

gaggacacat tcattgctga cttagccgtt ggcttgtcca ctggacaaat caaaaccggt 60

gctccttgca gatccgagcg tcttgccaag tacaaccagc ttttgcgtat tgaggaggag 120

ttgggatcag aggcaattta cgctggagtc aacttccgca aacctgtgga accctactaa 180

atggagcttt tagaagcaaa gtggtcttct ttgtgacgag gagaanatga cctgagtttg 240

atcatttgct ttaattaaat aaaacgttct gtttttgttt cttctttgtt tggtttctta 300

nngtcttttg ttgaaccctt tttgggaaaa gttactcatt tttgtaaagg gaaacatgan 360

aatgcncngg cnttggtcga gggnncgntg ccccccctaag gtcaccccaa gtt 413

<210> 3835
<211> 383
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-C8

<400> 3835

acgcgtccgg tcaactccaa gaacaaaaag cacctctgct ctgttttgag atccaaccac 60

agttcaaact aatcaaaagt cccaatttct aacttcagtc taggcttttt ctctccatgg 120

atccttgatt ctgagatcaa ccaatcgaaa gaaaccaaaa tgggcttcaa cgttgttgtg 180

ttcttgagtt gtctgcttct acttcctcct gttacttttg gtagcaacat ggaacgaacc 240

accttggtta tagacggctc acgtcgaatc gctgagaccg atgagaactt tatctgcgca 300

acgcttgatt ggtggccacc tgaaaaatgc aactatgatc aatgtccttg gggttacgca 360

tctctcaaca atttggaact tan 383

<210> 3836
<211> 507
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-D1

<400> 3836

tgttacgcct gccagttacc ggtccaagaa tcccgggntc gaccaacgcc gtccgcaccg 60

ccatctaaac aacactcctt caactgaagc cgcggcgaaa gaaggggaa agcgaaatct 120

attaagatta ggggtttata acgattatag ggagggacga aaatcaagna agacgagcta 180

gaaggaagct gcgatttttc tggaagataa acaatggcac aagattcaga gaagagattc 240

caccaaatca tggataaact ctttacccca tcgaaatctc agcttccttc ttcctccacc 300

agttcttctg tagagcaaca atcaagaggc aagaagcgtc aaaatccttc atctgcgtta 360

gcattggttg agccaaaaga ttgtattaac taccattgat aggtcctcan ncntttgaag 420

ggttcccgct ggaaaanncc ccntcngggc tttttnaagg ccttgggaan nangggnatt 480

nnttctnngg agggtttgct actttca 507

<210> 3837
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-D7

<400> 3837

cttcttcttc atcttcttct atatattggt gtttcatttg ttctgcttta aaagtacaca 60

aagattcatc ttttttcggt cctctgattg ggcaaaagac tagctcggtc gtgttttgaa 120

caagagatac atgttttgaa aaattcctcg caaaagaaga gaaagaaaga ctcaaacttt 180

tgtttgaatt tgataccatt ttttatatat ataccaaaag tccaagactg gtttcatttt 240

tgggtttggt ctgaaacctc tcttcgtgtt gtttgttcat ggtatgtctt aattagggta 300

aaaaaatact tgattgtttt ctctcaatca tcangcataa gagtacgcaa taaaccggnt 360

aaatcc 366

<210> 3838
<211> 480
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-073-Q1-E1-E3

<400> 3838

tgttacgcct gccagttacc ggtncaagaa ttcccgggac gacccacgcg tccggctctg 60

tgtantttgc ttctttaggg agaaagaaag cacaaggggc aaaatcggaa agattatcat 120

ggccgacggt agtactagtt cttcggagtc cactaccgcc tgcgctggaa gcggcacaag 180

aagagagatt atgctgttcg gagtcagggt tgtgcttgac ccgatgagaa agtgcgtgag 240

tttgaacaat ctgtctgact atgaacagac ggcggagact ccaaagatcg acggcgaaga 300

tagagatgaa caagatatga acaaaacccc ggccggttac gcctcggcgg atgaagctct 360

tcccatgtct tcttctaacg gnaaaatcga naggaaacca ngagtttcat gggagngaan 420

nnagaacaca aaacngntnn ctnccctggg gnnncaaaaa ttccgtnaag gggaaattgg 480

<210> 3839
<211> 430
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F8

<400> 3839

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ccccatatct gaaagctgaa gctaagaatc tggacgttcg tgtttaaacc gacgacgtat 120

ttgaaattgg ctttgaagga aaggtgaaat taatggcgga atcgtcgtcg ccgtcgccta 180

ctgaagagat cgttcggttg attaagcgtt taagcgctta cgttgctttc aaaatgtcaa 240

gccttttctc cactacatcg attcgaaatc tggattcaag atcaattggt gcgattgcgg 300

ggcttgcgat tgcngtgata tntacgtgga ngggcgataa gaacgcccgg agaagcaacg 360

tntnnagaag gcagnccaag cgtatgattc acantgctga aacgtctant gctgctgntg 420

cttgcctctc 430

<210> 3840
<211> 394
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-A12

<400> 3840

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atattctcca catttgccga ggccaatagg ggctttgggt ggggttgggg tggacactcc 120

aacaattcaa gtggttcagg ttcaaactcg aggtccggat ggggttgggg ttggggtcaa 180

ggctccaact attcaagtgg ttcagcttca accccannnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncccaacaa tacacacanc 300

tcaaggtctg ngcggctcgg gttggggcat ggggccctaa caacaattac aagctcggga 360

tttngcggct cgggttcagg ctgggggata ttgn 394

<210> 3841
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-A3

<400> 3841

aaaaccaact ctggagaatg gcgaatctac cttcttctct ctccatgggc acacctttcg 60

gtggtcctag cacctccgca caaaatccta ccggagctcc ggccaacaaa gatcgcaatt 120

tggcctctgc tgaacagttg gtactcgatc tcagcaatcc tgaactcaga gaaaatgctc 180

ttctcgagct ttccaagaaa agagaattgt ttcaggatct ggcgcctttg ttgtggaact 240

cttttggtac cattgctgcc ttgttacagg aagattgtat caatctactc tgttcttgca 300

cctccaaatc tgactcctgc tcagtccaac cgtgtttgca actcgctcgc tcttcttcag 360

tggcgtagca tctcattctg acacgagaat gtnattctca aggctcataa tccngttg 418

<210> 3842
<211> 431
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-A8

<400> 3842

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taaggctata tgcttgccct gagctaaaga cattacctgg agaaatatgt gagcttcctg 120

ggcttaagta tctcgacatc tcacaatgtg tcagcctgag ttgtcttcca gaggaaatag 180

gaaagctaaa gaagcttgag aagatcgaca tgagagaatg ttgcttctcg gatagaccga 240

gctctgctgt ttcactgaag tctctgcgcc atgtaatctg cgataccgac gttgcattta 300

tgtgggaaga agttgagaag gctgttccag ggttaaagat cgaaagctgc tgagaaatgc 360

ttcagcctaa actgggcttg ncgaattana gtgtaaactc antgtttann agtctggtan 420

agttaaatgg c 431

<210> 3843
<211> 366
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-A9

<400> 3843

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cctcttgatc atcgtcttct tctaccaaaa ttgttgcgcg acaatggaga aatacaacag 120

tttatcagat tttctcaagg agttctacat ccctacgtac gtcctctcgg cggaaacaga 180

agaggaggag gaggaggaga gtcgtcctac acctgcganc cccgtccttg tcttcatcaa 240

ctccaaaagc ggtgggtcag ttgggtgggc gaactcattc tcacctaccg atctcttctc 300

aatcacaatc aggtctttga tcncgaccan gganactcca ggataaagtg ctccgcagga 360

atctan 366

<210> 3844
<211> 429
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-B3

<400> 3844

aacattgaat cgtgtctaaa tcgatctctg agggagatat acctggaatc acgatcttag 60

atttcgatgc ttggatctga gctcctaacc attctgtgga ttgagaaata gattgggata 120

tgagatccat actcgagatg tgtttttgct caaaaattag cttgttcctg caattccata 180

ggttccacaa gatccaaatg ggaagttgtc cttgtccaat tccgattggt ggaagggtaa 240

cgaggagctt tgagacttcc aaaccctgtt tcatacttgt gatccgggaa gcttgaagcg 300

tggttttgaa aggagaaaga tcccaagacc ttagaagcaa atgggcagag gaaaagcang 360

atggagaatt gattcagcct cgtcgcagtg aggacagaga gcaagcggat ttataccacg 420

cagcctcag 429

<210> 3845
<211> 427
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-B6

<400> 3845

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gaaactctat agttggtctt cctggtgtag atggtctttc aacagaacag aggaagaggc 120

ttactatagc agttgaattg gtagctaatc catcaataat cttcatggac gagccaacat 180

ctggtcttga tgcaagagct gctgccattg ttatgcgtac tgttaggaat actgttgata 240

caggaagaac tgttgtttgt acaattcacc aacctagcat cgacattttc gaatccttcg 300

atgagttgct gttgatgaaa cgaggaggac aagttatata tgctggaaca ctaggacatc 360

actcacaaaa actcgttgaa tactttgagg ctattgaang gggttccaaa gatcaaggac 420

ggataca 427

<210> 3846
<211> 400
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-B9

<400> 3846

attttctcca ttctctcgtt ccaattatta tttacttttt tcacccaata aaaaaaaaac 60

catgcattca cttccggtga atctcgtcct caccgtactt acggtgttcc taacatcacc 120

ggcgcaagtt atcggatacc gtccatatcc accaaaaacc aanggctccg atcaaatctt 180

cgacgcttca aaaaaattcg aaggctcatc gaatctcgtc cgcctccgtt accacatggg 240

tccagtctta accaacaaca tcaccgttca cccaatctgg tacggcacgt ggcaaaaatc 300

ccagaagaaa atcanccgtg agttcattaa ctcaatctca gccgttggat ctaaacaccc 360

ttcagtcncc gggttgggtg gaaaaccgta cnaggtttac 400

<210> 3847
<211> 432
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-C5

<400> 3847

gtaccaagtc atgaaattcc cgggtccgac ccacgcgtcc gnccaaaaac tctgtcgaat 60

tcgatcgtta catcgagcgc aaagctttcg acaatacaaa agaaggtgtt aaagggctca 120

tcgatgctaa aatcaccgag atccctcgaa ttttccacgt ccctcaagat accttaccag 180

acaagaaacg ctctgtttca gacctagaga tccctaccat cgactttgca agcgtcaacg 240

tggacacacc ctcacgtgaa gccatcgtgg agaaagtcan atatgcggtg gagaattggg 300

gattcttcca ggtgattaat catggngttc ctttaaangt tcttgaagag attaaagatg 360

gggttcngta ggtttcacga ggaagaagat nctgaggtca aaganatcat actantcgct 420

tgatttcacc aa 432

<210> 3848
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-C8

<400> 3848

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gtcttgcgtt cacaaagttg tctcactctc aatggactga ttacttcctc tctgttccca 120

tcgatgattc ggagttagac gctattacaa gagagattga cataatcaag cctgaagtta 180

ggaagctcct atcttccaaa ggtgatgatg agacatcaaa gaggaaagtg cttttgatcc 240

aatcgcttct tagccttggc ctcgcatttc attttgaana tgaagntcaa agatanatta 300

gaagatgctt ttcgaangat agatgatnta actggtgatg aanatgactt gtcganaanc 360

tgcatcatgt tccgcttttc aggaanatac gggcacagnt ttacaatcaa ggtgtantt 419

<210> 3849
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-C9

<400> 3849

aactgagaaa gaagttttat ttattaatta atggcggaag agaaaagcta caagtacgtg 60

atcattggag gtggtgtagc cggcggttac gcggcgagag agtttagtaa tcagggcctg 120

aagcctggtg aactcgcaat catttccaag gaaccagtgc ctccttttga ncgtcctgaa 180

ctanccaagg tatatattga cctcgaagtc aatccgaccc ttgcaaatat ctatgtttgt 240

gctggaactg gagaagcgan gcagtaccct aactggtaca aagagaaagg gattgatcna 300

attgtgggca cagagatagt caaagcagat cttgcttcan acacacttgt taantgatga 360

ctggcanaat ttacaaagta ccaancttt 389

<210> 3850
<211> 439
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F1

<400> 3850

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tcaactgggg aagaagaaag gtgtaacctt tatataacca tggattccgg tgacgcgaca 120

tctttgcttt tgacgaaaat tcgaagcttg gagccagatt atgctcctaa gattattggg 180

tatttgcttt tacatgattt tggtgataga gacttgatgc atctggctcg tggacctgaa 240

tcgattttgc agtcgactat ttcgaaagtg aagagtctct tggggatttt ctccaacaac 300

tcgccttctt ctactccgac gtctccttct ccgttgaatc ctatctgtcg tcctcctctt 360

aacggaagan gaagctctca ctccaatggg tttatggatt tccgtagaaa ctctccgtcn 420

tctccttctt ctacctctc 439

<210> 3851
<211> 381
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F10

<400> 3851

acgcgtccgg tacaacccaa cacactaccg tgaacctaaa ttttacacaa agcttttcaa 60

agaatgccat atgaatgacg aagatgggaa ttcgtatgaa ctctctttgg ttagctgtaa 120

atgcattgga gcttatgtga gaaacaaaaa gaaccagaac cagatatgct ggctttggca 180

gaaagtcagt tcggataatg ataggggctt ccaacgcttc ttggacaatg tccagtataa 240

gtctagtggt atcttacgct atgagcgtgt ctttggagaa gggtttgtta gcacaggggg 300

actcgagaca acaaaggaat tcgtggatat gctggatctg aaacctggcc aaaaagttct 360

agacnttggg tgcggaatag g 381

<210> 3852
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F4

<400> 3852

attttgcccn ggcccggtcc aaaataaacg ggtcnacncn cgcgtccggg aagaatggct 60

acatgtcctc ctttcgattt ctcgaccaaa tattacgatg gtgacggcgg atgccagagg 120

cagagcagct tcttcggagg cacgacggtg ctcgatcaag gcgttggcta cgccgtgatt 180

cttggttttg gtgctttctt tgccgtcttc acatcttttt tggtatggtt agaaaaacga 240

tatgtgggag ctcgtcatac atcggaatgg ttcaatacag cgggaagaaa cgttaagaca 300

ggacttattg caagtgtcat tgtatcacag tggacatggg ctgcgaccat actgcaaagt 360

tcaaacgtag catggcagta tggggttagt ggaccgtttt ggtacgccan gtggagccac 420

catacaggtg ctgttgtttg gtgtgattgc gantgagata aaaagaaaag gctcctaatg 480

ctcacac 487

<210> 3853
<211> 485
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F6

<400> 3853

acntcgcccg ggaccgtaca agtcannaaa ttcccgggtc cgacccacgc gtccgngacc 60

gcttccttct ttctctgtca catacgaatc ggggaaattt ggatcccgat cgtgatcttt 120

agtttggtga atttgagctg gaattggagc ttaaaggatc ggtttttga ctgatctaat 180

tgttttgagg atcggtcttt cataaagttg ttgtctttga agctttttg actggtgagg 240

acgaaaaagt tgtgattttg ggaattaggg ttgttttgtt tcgaattcgc catggatacg 300

agcangagag ctgtggaatc gtattggagg tcgcggatga tagatgcggt tacgtctgat 360

gaggacaaag ttgcgcctgt gtacaaattg ggaagagatc tgtgacctcn ttcgncttcn 420

cangtcagca tcgtcaagga attttctgaa ntcatntttg aaacgtcttg ataanaaaaa 480

gcccc 485

<210> 3854
<211> 487
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-071-Q1-E1-F7

<400> 3854

cttttacccg nccggtaccg gtccanaaat tcccgggtcg acccacgcgt ccgngcttat 60

gctctaaaag cgattgctca gttcatccaa cctgcacttg aggctgtatt cgacgatact 120

cctaaagagt ttgattcttt tgaagatgtt cttaagatct atgaagaagg aatcgatcta 180

ccaaaccaag ctttgattga tagtatcgtt aagaatatac cgcttgagat gttaaaggag 240

atattcagaa cagatggcca gaaattcctt aagtttccag tgcctcangt catcaaagag 300

gacaaaactg catggagaac agatgaggaa tttgctanga gaaatgttgg ctggactaaa 360

ccctgttgtt attcaacttc ttaangagtt tcctccaaag agtangcttg acagtgaatc 420

atacggtaac cagaacagta caatcactaa gaagccacat nggagnanaa tttgggatgg 480

actcact 487

<210> 3855
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H7

<400> 3855

atattaanca ctttttcttt tagaaaaaaa aacanatatg gccgttgant cacctcntca 60

atctcggntg gtttcagcga cgacttctga gaaagatgtg aaagctctca agttcattga 120

agaaatgant cggaaccctg actcggttca agagaaggtt cttggataga tactgactcg 180

taactctaac accgaatatc tgaaacggtt cgatcttgat ggtgtcgttg atcggnaaac 240

gttcangagc aaagttccgg tggntacgta cgaagatttg aagccggaga ttcaacgtat 300

atccaacggg tgattgttct ccgatcttgt cttctcaccc catcaccgag tttctcacaa 360

gctcaggaac atctgctggg tganaagaaa ctaatgccaa caattgaaga aaacttatt 419

<210> 3856
<211> 184
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F1

<400> 3856

acaaatgcaa agcaaatnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnn nncaagaata ttttagatgc aaattctttt tccatagatg 120

tttttgtgtt ttcttcagtc aaatatatgg agaaatttca tactaaaaaa aaaaaaaaaa 180

aagg 184

<210> 3857
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F3

<400> 3857

ncatctggag ctattgtctt acttcatgca tgtgcacaca atcccactgg agttgaccca 60

acctctgaac agtgggaaca gattcgacag ctgatgagat ctaaaagctt attacccttt 120

tttgatagtg catatcaggg ttttgctagt ggtanccttg acacagatgc acaatctgtc 180

cgtacatttg ttgctgatgg cggtgaatgc ttgatagctc aaagttacgc caaaaatatg 240

ggactttatg gggancgtgt tggtgcccct ancattgtct gcaagtcaag cagatgtggc 300

tagtaaggtt gagaaccaag tgaagcntgt tgtgcggccc atgtattcga gccccccctat 360

tcatggaggc atcaattgtt gccaacattc taaaaaacca gttgntatg 409

<210> 3858
<211> 421
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F4

<400> 3858

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atccctccgc cggagcttga caacgactca ctggcgtcat cgccgagatc ggagtacgat 120

agtcagccac gcgtacggtt catgtgtact tttggaggaa ggatcttgcc acgtccgccg 180

gataatcagc tctgttacgt cggcggcgat aatcgcatgg tcgctgttca tcgtcacact 240

actttcgcct ctctccttag taaacttgct aaactctctg gtaaaagcaa cataagcgtg 300

aagtaccagc taccaaacga agatcttgac gcgttgattt ccgtatcaac ggacgaagat 360

gtagagaaca tgatggacga atacgaacgc gtcgcacaag aatccaaaac caagcggnct 420

c 421

<210> 3859
<211> 134
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F5

<400> 3859

caaattcncg ggtcgaccca cgcgtccnac caagttgtgt tgctacttgg taataagagt 60

aagctttaaa aagagtatgt tcactgnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nngg 134

<210> 3860
<211> 418
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-070-Q1-E1-F6

<400> 3860

ccacaaaaag gctggtgcta tgaatgcact ggtgagagtt tcagcagttc ttaccaatgg 60

acctttcatc ttgaatcttg attgtgatca ttacataaat aacagcaaag ccttaagaga 120

agcaatgtgc ttcctgatgg acccaaacct cgggaagcaa gtttgttatg ttcagttccc 180

acaaagattt gatggtatcg ataagaacga tagatatgct aatcgtaata ccgtgttctt 240

tgatattaac ttgagaggtt tagatgggat tcaaggacct gtatatgtcg gaactggatg 300

tgttttcaac agaacagcat tatacggtta tgaacctcca ataaaagtaa aacacaagaa 360

gccaagtctt ttatctaagc tctgtggtgg atcaagaaag aagaattcca aagctaag 418

<210> 3861
<211> 403
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F7

<400> 3861

acgcgtccgc nttttttctc tgctccaggg ggaaattaaa aaagtggaac cttttcatct 60

cctgnagcga tcaatttctt tttcatcata tcgctgactc tcgtcttcgt cgtctttgat 120

cgtatcgagg aattgggttt agttcgattc gatcatcagc tatctcaatt tttctgggga 180

ttgttctaaa ggtttctagt gacttgttta aagtggttgg tantggataa tgccttctct 240

catctcacag naatggnatg agangactag tgggntcttt tcttcatcag gaacgaanct 300

tatggaagca gggcagactg ctgggtagtt ttgtcnggga agttgctaag gatgcgaaag 360

tgaatgttgc aaatgttgca caaagattgg gtcgntgttt aaa 403

<210> 3862
<211> 419
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-F8

<400> 3862

gagattacaa gggaaagaga caactccaat tcaaagctct gatttttttcc accaatcccc 60

atttttttccc ttttacaatt cttaagctag ttttatactt ttcttcttcc tttcatttgg 120

gttaagagaa gccatggata ccgagtttct ccgaacccta gatcgtcaga ttcttttggg 180

tgtcttcgtt gctttcgtcg ccgttggtgc tggtgctgct tattttctta catcctccaa 240

gaaacgcaga gtgtgtttgg atccagagaa tttcaaggag ttcaagcttg ttaagagaca 300

tcaagcttag tcacaatgtg gccaagttcg tttttgaact cccaacttct acttctgtgt 360

tgggtcttcc cattggacaa cacatcagtt gcaagggaaa ggatggtcaa nggagaaga 419

<210> 3863
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-G10

<400> 3863

tgggtcagga ccgantcata ggaggttatg ggttaaagaa cgaaccacgg actggtggga 60

cagagtaagc cggcctgatt ttccagaana cgagtttcgg cgagagttcc gtatgagcaa 120

atcgacgttt aacctaatat gcgaggagct agatacgacg gtgacgaaga aaaacacgat 180

gttaatagac gcgattccag ctccaaaacg cgtaggcgtt tgcgtttggc gtttggcgac 240

aggagctccg cttcgccacg tgtcggagcg tttcggtctg ggaatctcaa cttgccacaa 300

actagtcatc gaagtctgcc gcgcgatcta cgacgttctc atgcccaagt atctccnctg 360

gccgtcggat tcagagnata aactcaacga tagccaaant ccgaat 406

<210> 3864
<211> 426
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-G2

<400> 3864

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tgtgataaaa ggntccacaa anaatgcgtc gagtgtccac ttgagantag ttatcctacc 120

cacaccaaac attctcccca actcntctaa tctaaatata natttgacca ttgcatctac 180

tgtagaaaaa gagcaaccta tatgatttaa ttttgtgctc tttgcgacag ttatatgcat 240

gtcctttgtg ctcaagtcaa aaataccctt ttttatagac caagccaaaa aagacatgac 300

catactctca ccctttccc tagacaagct tccttaacct gcaatatttg tggtttgata 360

aanaaactcc atttcaccta cgtttgccct aaatgcgaat tcgtaaccca aaagtgattg 420

naatta 426

<210> 3865
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-G7

<400> 3865

aaactcaaat cttcctctca gtttctccca ctcttcttcc tcaaccttcc gatttatcgg 60

attactctaa aatacccaaa atggaatctc atggaaaaac ccatcagaaa gagcacgata 120

atgatctctc tccgaaaccc ataacgttgt caaagtattc gaaacgggtc gagttaaaga 180

ctctgcttga tcggagcgac cgcggcgcag gattggctgg gaaaagggtt gtgattggtg 240

gttgggttaa gtctgctaga gcggttaaga aaaattctcc tcctcctcct ctgcctgtag 300

ttgccgcccc ttcgccgtcg agtggtgggg atnaagctca tacgacgggc aacattaagt 360

gcacgggaga tatccaatcn aaaatgaata atttcaagag attttccn 408

<210> 3866

<211> 413
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-G8

<400> 3866

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agcaatctgg gcatgacaaa gtccatgaat ttctttcaga acatcattaa acctttcaaa 120

cgcagctcca atcgaggtct tgaagatgat attgagcgaa ttgctgctat ggagcaaaaa 180

gttttcccat ttcaagtttt agtttccgct accaaagatt ttcacccgac ccataaactc 240

ggtgaaggtg gtttcggtcc cgtcttcaan ggaagattac ctgacgggag agacatagca 300

gtgaagaagc tatctcaggt ttcaangcaa ggcaaaaacg agtttgtgaa cgangctaag 360

ttgttggcta aagttcagca tcgcaatgtt gttaatcctt ggggttaatg tac 413

<210> 3867
<211> 469
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H10

<400> 3867

cgttacgctn ccggtgggcg gtaanggtca aaangtccng ggcccnncgg ancttaanga 60

gactgttgct canacaattc aggaagtttt gtgggacaat cctcccatac cagagaacca 120

agcaacatgc gctttatttt actctatttc ttcaactcag cctggcttag ctgggataaa 180

cctcggnaaa tttctgatca aacgagtgat tacgttggtg aaaaaagaca tgccacatgt 240

ttctacattt gcaacactta gccccattcc tggattcatg caatggntcc tctcgaagtt 300

atcatctcaa gtcaagattt gctgaagatg agcgtggtac acagagcaat tcgccttcat 360

ctacgtttag tgagaaagta ttactaccag aagaggaaca tgccctcatg actctatcag 420

atgaatcttc atccggtagc aacggtatgg aagttctgtt gaatttgct 469

<210> 3868
<211> 465
<212> DNA

<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H2

<400> 3868

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cttcctcaat gggaaaaaca agtgcgttag atangctttg tggccaagcg tacggagcaa 180

agaagtacgg aatgttagga atacaaatgc aaaaagctat gtttgttctt acactaactt 240

ctantcctct ctccatcatt tgggctaaca cagagcanct tctcgtcttc tttggacaaa 300

acaaatccat tgctacactc gctggctcct acgcaaaatt catgatccca agcatcttcg 360

cctacggtct tcttcaatgc tttaacaggt tcttgcaggc ccaaaacaat gtgtttcctg 420

tggttttctg ctccggagta acaacttctc canatgtcct ccttt 465

<210> 3869
<211> 396
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H4

<400> 3869

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caaagctaga tcattgaaaa aggcgagtga gtcacgggct tggaggttaa cagctttcca 120

gagactagac ttcacgtgtg acgatgtctt ggattctctc aaagaagaca acattatagg 180

caaaggagga gctggtattg tctataaagg cgtaatgcct aatggtgatc tagtcgcggt 240

taaaagactc gctgcaatgt ctcgtggatc ttcccatgat cacggcttca acgcagagat 300

tcaaacctta ggaaggataa gacacaagac acatagtgag gcttctcgga ttttgctcaa 360

accacnaaga cgaatctact tgtcnaagaa gtacat 396

<210> 3870
<211> 437
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-E8

<400> 3870

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caacaacctg ttgggtaaat tcgagctttc tggtatccct ccagcaccaa gaggtgttcc 120

tcaaatcact gtctgttttg acattgatgc aaacggtatc ctcaacgtct cggctgagga 180

caagacaacg gggcagaaga acaagatcac aatcaccanc gacaagggaa gattgtcaaa 240

ggacgagatt gagaaaatgg ttcaagaggc agagaagtac aagtcggagg atgaggagca 300

caagaagaag gtggacgcca agaatgctct tgagaattac gcatacaaca tgaggaacac 360

aatccgtgat gagaagattg gcgagaagct tgctggagat gacaagaaga agattgaaga 420

ctcaattgaa gcaacca 437

<210> 3871
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H5

<400> 3871

acgcgtccga aaaacctctt cttcttcttc tctctctcta tccattttca ctaattagcg 60

attaaaaagg attctttttg tgtgtattaa ttatcgctta aatcttaaat aattctccta 120

atcgtctctg cacgttggtg atggtgttta gttgtcaatt ctacatctcg aggaaatcca 180

gaaacagctc actgatctat cgaaacagtt ttttttcttt ttacagagtc aatagaacaa 240

gaaccagata acagagatag tgacaaacca tccgtgaccn nnnnnnnnnn nnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntaagacat tgcttaaatc 360

ntcaaaactc cntttggctt taaatatgtc ccttccaaat natcct 406

<210> 3872
<211> 462
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-070-Q1-E1-H6

<400> 3872

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tcgatttanc tcttttattg gaaccatgta ngcttcttgg agttagtatt ggtgtgatct 120

gtaatcttgt ttttccgaac tggttgatta cgagtctctt cgctgtgttt cttgcgtggt 180

cnacgttgaa nacttttgga aatggacttt attattggng attggaatcg gagatggtga 240

agattanaga atcgaatana attgaagaag atgatgaaga agataagatt gagagtctaa 300

agttgcctcn cntggnggat tatcagagac caaagangtt tccatggatt angcttggag 360

ttttggtcat tanttggctt tcttacttcg cagtttatct tcctcgagga aacanntatg 420

gcaatggaat cataacgatc gaaccatgtn ggaacgccca ac 462

<210> 3873
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-B10

<400> 3873

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tagagaagtc acattttcct tcttcttctt ccttcatcat ccccaaacac acacaaacta 120

aaaaaaaggc aaaaccctag atccaagatc agacctaatc taatcgaaac tcatagctga 180

aaaatgaaga gagatcatca ccaattccaa ggtcgattgt ccaaccacgg gacttcttct 240

tcatcatcat caatctctaa agataagatg atgatggtga aaaaagaaga agacggtgga 300

ggtaacatgg acgacgagct tctcgctgtt ttaggttaca aagttaggtc atcggagatg 360

gcggaggttg ctttgaaact cgaacaatta gagacgatga tgagtaatgt tcaagaagat 420

ggtttatctc atctcgcgac ggatactgtt caattatatc 460

<210> 3874
<211> 588
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-B3

<400> 3874

attnacgggt cgacccacgc gtcccgnnga cgcgtgggcg ggacgcgtgg gcggacgcgt 60

gggttgccct ctggcgtttt ctgtcttgag ctnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn nnctttttt ttttgtttat ttgttctttc tccaaaactc ctttttttc 180

tcaccattat ctcatgaacg tgagtggagg ctctctgagt agagagagcc tacccttgaa 240

aataacctag ggatttctcc aattttcaag ctttacccat tcaaaagaat cgtccttttt 300

tcctatttct gactttgagc tatgatgatg gtccattcga tgagcagaga tatgatgaac 360

agagagtcgc cggataaagg gttagattcc ggcaagtatg tgaggtacac gccggagcaa 420

gtggagtcnc anaattaacg atgccnagca antcctaaga agacacaact catactgaat 480

gtccgantcc ccccaacatc gagcctaagc agttaaantt gggttcaaaa acgcaanatg 540

tcgtganaaa gcanaggaaa agaaaccngc tccgtcctca aacagtga 588

<210> 3875
<211> 588
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-B6

<400> 3875

acggcgtccg atcttcttct ctaaactctc aacatgtctt gctcggccac cgatctcgct 60

gtcctgttgg gtcctaatgc cacggcggcg gccaactaca tctgtggcca ggttaggcga 120

cgtcaacaac aaatttatcg acaccgcttt cgctatagac aacacttacc ttctcttctc 180

cgcctacctt gtcttctcta tgcagcttgg cttcgctatg ctctgtgccg gttccgtgag 240

agccaagaat actatgaaca tcatgcttac caacgtcctt gacgctgcag ccggtggtct 300

cttctattat ctgtttggct acgcctttgc ctttggatct ccgtccaatg gtttcatcgg 360

taaacactac tttggtctca aagacatccc cacggcctct gctgactatc aattccacaa 420

tggccttgat cctgcggtgg atacaagtgg gtcgattgct gaacggacac anttcgtggc 480

ttaactaatc cnagtcctcc ttcctaaacc ggggtttggt taacccgggt ccgtccnctc 540

aaatgggttt cngggtcaaa ttttaatngg atggggccaa accccgtt 588

<210> 3876
<211> 454
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-D12

<400> 3876

cangtaccgg tcaaagaatt cccgggncga cccacgcgtc cnnccacgcg tccgctcttc 60

tccgttcatc ttccggtnta tctgccgcca aattagtcaa ccgaaacccc aggcttcctt 120

ctcggntcac ccgcgcgtca cgccgctcca tgtagctacc tcctcggccg cgtcgccgag 180

tatgcgacct cttcaccggc aagctctgct gcgccatcct ctgctcctgc taaggatgag 240

gggaaaaaga cctatgatta cggtggcaaa ggtgcgatgg ggcgtgtttg tcaggtcatc 300

ggtgccattg tcgatgtgag attcgaggat cagggaagga ttgcctccga tcatgacatc 360

tccttgaggt tcaaggatta tcccangaag gctggtgctt gaagggtgtc tcatcatttg 420

ggtcaaaatg tcgttaggac cattngctat ggat 454

<210> 3877
<211> 626
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-D3

<400> 3877

ggtccanaat taaagggtcn acgcncgcgt ccggcttaaa gcattcggca acttccaaaa 60

agccacacct gaagaaagaa accttagatt tggtgtcagg gaacatggta tgggagctat 120

ctgcaacggc attgcccttc acagccccgg ttttatccct tactgcgcaa ctttctttgt 180

gtttactgac tatatgagag ctgcaatgag aatctcggct ttgtctgaag ctggtgttat 240

atacgttatg acccatgact ccattggtct tggagaagat ggaccaaccc accaacccat 300

cgaacactta tccagtttcc gtgccatgcc caatattatg atgttccgtc cagctgatgg 360

gaacgaaaca gccggtgcat acaaaatcgc tgtcacaaaa cgtaagacac cttctgtctt 420

agccttatct atcgnagctg ctcactcaga catctattga gacgtcaaaa aggtggatac 480

accantttct gacaactcaa ccggttaaca aaacccgatg ntaattgttg atnnggaact 540

gggatttaga gcctnnaana tttgcctgct ccaagcctgc canaagaaaa ttttaagggg 600

aaacaaaggg gcaaaaaatt ttttan 626

<210> 3878
<211> 611
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-D5

<400> 3878

tacaantcca tgaaattccc gggtcgaccc accgcntccg natcaaggta ccaattgatg 60

tatttgcagg aatcactgat gaagatgctg ctaaggttgt ggatggtctg gctcccaaag 120

ctgctgacag aaaagattcg attgaacaag tgaagaagct atacgaactc ttccgcaaga 180

ctgactgcac aatgttggaa atcaatcccc ttgcggagac atcaactaat caattggtag 240

ctgctgatgc caaattgaac ttcgatgata atgctgcgtt ccgacaaaaa gaggttttcg 300

ccatgcgtga tccaacacag gaggatccac gagaggtggc tgctgctaaa gttgacctga 360

actacatcgg tttagatgga gagattggtt gcatggtgaa tggtgctgga ttggccatgg 420

caaccatgga catcataatt cacgtggaca ccgcaanttc tgacttggtg gaaatgcttc 480

tgagcaccaa gtggtggaan cgtttaagat actgacatcc ggacgagtaa agtgaaaacc 540

aatccttggg gaacatattt ggtngggana aatgaaatgt naatgttaat tgccaattgg 600

aaaccctnaa c 611

<210> 3879
<211> 433
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-D9

<400> 3879

gaattcccgg gccgacccac gcgtccngga ccattaagag ctttccataa aagcatcaca 60

acggctgcaa cagttaacaa atacaaggac gagtacagaa actggttcag gagtcatcat 120

gcctcagaac tgcatagcac caaggcctga agaagatggt ggagtcatgg ttcaaggttt 180

gccagatatg tcagacacgc agagcaagtc tgtactagcc ttccctacga ttacttcaca 240

acctggtctc cagatgtcta tgtatcccat aactctcaag tttgaggagg ttgtgtacaa 300

ggttaagata gagcagacaa gtcagtgtat gggatcatgg aaaagcaaag agaagacgat 360

tttgaatggg gataacggga atggtttgtc cccggagagt ttctagccat gttaggtcca 420

tcaggcagtt ggc 433

<210> 3880
<211> 582
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-E4

<400> 3880

cgggtcgagg cacgcgtccg gacaaaatcg tttggttggg atacatatga ttcttttatg 60

caacatgatg tacaagaact caacagagtt ctctgtgaaa agcttgagga caagatgaag 120

ggaactgttg tggagggaac aatacaaaag ctatttgaag gtcaccacat gaattacatt 180

gagtgcatta atgtagatta caaatctaca cggaaagagt cattttatga cctccagctt 240

gatgttaaag gctgcaaaga tgtatatgct tcttttgaca agtatgttga agttgaacgc 300

cttgaaggag acaacaaata ccatgcagaa ggacatgatt tgcaggatgc aaaaaaaggt 360

gttctattca tagactttcc accaagttct tcaacttcag ctcaagaggt ttgaatacga 420

tttntgagga ccatgggant atgtcggtat agttcctccc caactggatn tcgacagana 480

anatggaaat attatcccct gatgcanaca gnaagtgtcc gcaatctcca aaacctccan 540

antgtcctgg gtcnaaattg ggaggaattc cattggangg gc 582

<210> 3881
<211> 608
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-E8

<400> 3881

gtacaatcan aaattcccgg gtcgacccac gcgtccgtct ctctctatct atcttcttca 60

tctttgtttc agcttctcct ttgaaactag attatctccg ttaatggcgc ctcagatcta 120

accttgggag ttatataata tatacttgtt caactcttct tcgaacgctg tccaacttct 180

tcctctggtt cgatcatcga gatctcgagg ttatttggcc gcaatgcaga agcgaatagc 240

cttgtcgttt ccagaagagg tactagagca tgtgttctcg tttattcagc tggataagga 300

taggaactca gtctctctgg tgtgcaagtc atggtacgag atcgaagcgg tggtgcagga 360

ggaaagtctt catcgggaac tgctacgccg tgagtccagc gacggtgatt aggaggttcc 420

cgaaagtgag atccgtgact aagaaaccac ttgcgactta attggtactg acggttgggg 480

aaggttacgt gtanccangg ntttnnggca atgtcctccg tcctaaaacn ttggcttgaa 540

anagaanaag gctgaanaag gattggtggt caaccgnacn aattgccttg gggcccaaaa 600

nccaaatt 608

<210> 3882
<211> 470
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-E9

<400> 3882

actttgcccc gcccaggtac angtcaaaga attcccgggn cgacccacgc gtccnccaat 60

cccaaaattc cacttctgtc cacaaaacac aaagcgattc tcgatctttg atcgtcccac 120

caagatggcc gggaacgatt gggtaaacag ttacttaaga ggcgattctc gacgtcggtc 180

agggtcttga cgatgctcgc tcttctccat cacttcttct tagggagaga ggtcgattca 240

ctcccagccg ttactttgtt gaggaagtta tcactggtta cgatgaagac tgatcttcat 300

agattctggg ttaaggctgt tgctacgaag agtccacaag agaagaacac gaagttagag 360

aatatgtgtt gganggattt gggatcctgc tccgtcaaaa agaaacaagc atgagggaaa 420

aaagnaagca caagaggctg gctaagccca aggcttgaac ntttagaaaa 470

<210> 3883
<211> 612
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-F1

<400> 3883

aactgtttac tttcccnggn tcggtccnaa aattaaaggg tcgacgcncg cgtccgaaag 60

ttgatccaca cttttgttaa agaaaaacat caagatgaga ttacattcgg cgacaaatca 120

agattaggga gaggggtat gactgcaaaa gtcaaagctg caagtcaatg cagcttatgc 180

tgggattcct gtcatcataa ccagtgggta ttcagctgag aacatagata aagtcctcag 240

aggactacgt gttggaacct tgtttcatca agatgctcgt ttatgggctc cgatcacaag 300

attctaatgc tcgtgacatg gcagttgctg cgagggaaag ttccagaaag cttcaggcct 360

tatcttcgga agacaggaaa aaaattctgc ttgatattgc cgatgccctt gaagcaaatg 420

ttactacaat caaaagctga gaatgagtta gatgtagctt cgccanagcg gttgaaatca 480

tggtgctccc taatttgaca cctggaaaga tttcaacctt gcaacntcan tttcgtaanc 540

caacctgata tggaagattc aaatcggncg ttttttttaaa gaaaaccana nggtggcaaa 600

atgggncctg tc 612

<210> 3884
<211> 606
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-B1

<400> 3884

attcangggt cgacccacgc gtcccgcntc gccaacatgt ccttaaatta tctcttttta 60

atgaattgat cgataaagtt ctcaccttta tgcctcctcc tacttttttcc acttaatcat 120

cccacttcct tcttcagatg taagcaatgt tgtctagagt cctcctctga ttcagatttc 180

gttgctgaat cttttgtaaa actctgttct ttgtatgtcg agaagccaaa ttcagggaat 240

ttagggtttt acaaaaaaat aaaaaagagt ttctttttttt ggatgatgga atcgaattac 300

tcaggtgtgg tcaacggcta cgatgtgagt ttcttaccaa cttcgattcc ggatcttgga 360

ttcggtgttc cttcttctag tgattttgat cttcggatgg atcaatacta tcaccaacct 420

tcgagtgggt caataagtta cactttctca caantgatga nattgatccg aaaacaccct 480

tttgaaaaan ttaaacaagc tcccttaagg gaangaaaat cnccccctgaa naagcaattc 540

aaacctccaa gnaatncctt tgggnccctt cgaanaaaan ccnangggaa aatgtttcaa 600

ccaagt 606

<210> 3885
<211> 389
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-F2

<400> 3885

acgcgtccgc ttgctccgac acgacaacaa atccagattt tgagcttang gaaacttgag 60

aaggagaaaa aaatgtcgaa catanacata naagggatct tgaaggagct acctaatgat 120

gggaggatcc caangacgaa gatagtttgc acattacgac cagcttctcn cactgtttcc 180

atgatcgaaa agcttttgaa agccggtant aatgtggntc ncttcaactt ctcacatngn 240

agccatgaat accatcaaga gacactcgac aacctccgct ctgctatgca taataccggc 300

attcncgctg ctgtcatgct tgatactnan gggcctgana ttcgtactgg tttcttgaaa 360

gatgggaacc ctatgaactg aangaagtc 389

<210> 3886
<211> 398
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-F3

<400> 3886

tgacgcttta cttgacgttg tttactctgc cgttgaacgc tcangcggtg gatctctccc 60

agtggntgtt tccgagagcg gntggccttc taanggtggn aacgccgcga gtttcgataa 120

cgcgngagct ttttacacga atcttgcgtc acgtgtgaga ganaacagag gaacaccgaa 180

ganacctgga agaggagtgg caacgtattt gttcgccang tttgatgaga atcaaaagag 240

tcctgagatc nagaagaatt ttggcttgnt ttttccnaat acacaaccaa aatttccgat 300

cacattctct gccgcnacag acggtacngg ggttgaatna tcattttana ttctnagatt 360

tatgtgaata aatgggagat tatcccagnc aagggttc 398

<210> 3887
<211> 407
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-F5

<400> 3887

tcttcttcat ccaaaagaat ccaatctttt cctcaaaaga tagtttctgg atcgaacgac 60

aatggagatt ttctactact tggtgtttgg ggttttgggt ctcgtcgtcg cggcgttgga 120

gcttagcaag aacaacaagg atcgaatcaa cacttcttca gctttcaatt ctttcaagaa 180

caattatctc cttgtctatt cgctcatgat ggcgggtgat tggttgcagg gtccatatgt 240

gtactatctt tatagtactt atggatttgg taaaggggac attggacagc ttttcattgc 300

tggttttggt tcctctatgt tgtttggtac catcgttggg tctctagccg acaaacaggg 360

tcgtaagagg gcatgtgtta cctattgtat tacctatata ttgagct 407

<210> 3888
<211> 452
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-F6

<400> 3888

aggtaccagt caagaattcc cgggncgacc cacgcgtccn aattgctgaa ggtgtggatt 60

tcattgctgt atcgtttgtc aagtcggctg aagtcattaa tcaccttaaa agttatcttg 120

ctgctcgttc ccgtggaggg gaaattggag tgattgcaaa gatcgagagt atcgattcac 180

tgaccaattt ggaagaaatt attctagcat cagatggggc catggttgca agaggagatc 240

tgggagctca gatacctctt gagcaagttc cagcagctca acagagaatc gtccaagtat 300

gcagagctct taacaaaccc gtcattgtcg cttcacagct attggagtcc atgattgagt 360

acccaactcc aaccaagagc agaagttgcc gacgtgtctg aagcagtaag acaaagatca 420

agatgcattg atgctctctg gagaatcagc ta 452

<210> 3889
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-G1

<400> 3889

acgcgtccgc tgaaaactct tttctctcca cctctttctc tcttacccca aacacaaaat 60

ctcctcttta atggatatat cgcctctccg atctcattct tcctcgtttt tatctgccaa 120

acnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnagctt tcggtttctt tgataattcc ctttgaattc 240

gtttttcttc ttctttcaat ttccgcaaat aatcagccgc cgataagata atcatgggga 300

ggaaatctca gcgtaagaac gcgacaatgt ttgatagtga tgatgataca agtagtgtaa 360

gctcttcctc cancatgcca tctgagagat tgttgaatcc tggtaaggat 410

<210> 3890
<211> 122
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-G11

<400> 3890

acgcgtccga ttttgaagtt ttttcagtaa catgtaaaga atgcttgtta ctgatttgtg 60

gtggtgcaaa ataatttttа tgaagatttt agtgnnnnnn nnnnnnnnnn nnnnnnnnnn 120

gg 122

<210> 3891
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-G5

<400> 3891

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gtacttgttg tccatgccag ccagttagcc atatatgagg ctcctaaatt agagaacatg 120

aagcagtgga taccgaaaga gtcaagtggt tcagtcacag atgcagtata ttcatgtgat 180

agccagtcaa tctatgcagc ctttgatgat ggaagtgtga gtatcttgac ggcaacaaca 240

ttgcaactga agtgccgcat tggtcccaat tcatatttgc cttcagaccc gagctcgaga 300

gtatatccag ccacagttgc agcacatccg tctgaaccaa accagtttgc agttggacta 360

accgatggtg gggtccacgt gatcgaanca ncangtccag aagggaagtt g 411

<210> 3892
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-G9

<400> 3892

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ctcaaagtca ttactctttt tccaaggtca ncggtctggt cgcctcccta gtgaccaaca 120

actctcatgg aggtctagct ctggcctctc tgatggctca tctgctcacg tggacttgac 180

cggaggctac tatgatgctg gggacaatgt gaagttcaat ttcccgatgg cgttcaccac 240

aaccatgctt tcctggagct ctttggagta cggtaagaag atgggacccg agctccagaa 300

actcccgtgt ggccatccgt tgggccacgg gattatctac tgaaatgtgc cangggctac 360

accanggaag ctttacnttg gagtangaga tcctaatggt gaccacaagt gc 412

<210> 3893
<211> 460
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-H2

<400> 3893

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caccagctcc ctccttctca atcattagct tcttctcttc tcttctctca cagagagagt 120

aatcacaagc caagtgagaa aaagaannnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntggtct tatgatctca tcaaacggag 240

ctttaatcga acaacaacca tcagtcgttg tgaagaaacc accggcgaaa gatcgacata 300

gcaaagtcga tggaagaggg agaagaatcc gtatgccgat tatatgtgct gctcgtgttt 360

ttcagctaac gagagagctt ggtcataagt cagatggcca aacaattgaa tggttacttc 420

gtcaagcaga gccttctatt atagctgcaa caggaactgg 460

<210> 3894
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-H6

<400> 3894

agaaattaaa tacacacaat gaccaaagaa gtttgctcca acattggact ttggttattg 60

ctcacgttac ttattggtaa ctatgtcgtc aatcttgaag cctcgcacca tgtctacaag 120

agacttaccc aaagcactaa caccaaatct ccttccgtaa accagcccta ccggaccggt 180

ttccatttcc aacccccccaa aaattggatg aacgatccta atgggcctat gatatacaaa 240

ggaatatatc atcttttcta ccaatggaac ccgaaaggag ccgtgtgggg taacatcgtg 300

tgggctcatt ccacgtcaac agacttaatc aattgggatc cacatcctcc agctatcttc 360

ccatctgcac ccttcgatat caacgggatg ctggtccggt tcagctacta 410

<210> 3895
<211> 411
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-H9

<400> 3895

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cacctccgga agtttacttt caatgatctt aagctatcta ctagaaattt cagacccgag 120

agtcttcttg gagaaggtgg ttttggttgt gtctttaaag gatggatcga agaaaacggt 180

actgctcctg ttaaacctgg tactggtctt acggttgcag tcaaaacctt aaatcctgat 240

ggacttcaag gtcacaaaga atggcttgct gagattaatt tccttggtaa ccttctccat 300

ccaaatctag ttaagcttgt tggttattgc attgaagatg atcaaaggtt gcttgtgtat 360

gagtttatgc ctaagaggaa gtctggagaa tcacctttc agaaggtcct t 411

<210> 3896
<211> 624
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-A1

<400> 3896

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gtctcactcg ttttgcctta taatatttct ttcaacaaca acccaaatct acaaaaaatc 120

ccaataaaaa aaaacttcag tctgtttgac attttgtcga acacttggac ggcatcacaa 180

aaagctctaa actttctgac taccaatggc ggattcgtct tccgacaagg agaagaagga 240

aaataataag cagcccgtgt atcgtggagt ccgtatgagg agctggggaa aatgggtatc 300

ggagattcgc gaaccgagga agaaatcgag aatctggctc gggacttttc cgacggcgga 360

gatggctatg cgtgctcacg acgtggcggc tatgagtatc aaaggaactt cagccattct 420

caatttccct gagctctcta aacttcttcc ccgaccttcg ccanctctga ctcaaactgc 480

gggacaaact gctcccaatg gacttcgata cgaangggtt tccgttcnga tactgagaac 540

tancgaaacg acgacgtcna aataaaatgt cagagagtta ntgangaagt taacnaaacg 600

gtgtcgttcc caaccgtccg tcct 624

<210> 3897
<211> 605
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-A2

<400> 3897

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gtanaacact caatgggcta gggtggcccc atttcgcctt accaacccca gggaaactcc 120

gaatacaggc cgttctcgtt tgtacatnac agacttttgg ggtgcctaag atccaaagtc 180

gatagggaaa cagcccagat cntacgctaa ggtccctaag caatcactta ctggaaangg 240

aagtgatcga gcgatgacaa ccaggaggtg ggcttggnag cagccatcct ttgaagaaag 300

cgtantanct cantggtcta gctccatggc accgaaaatg tatcanggct cangtgattc 360

accgaagcga cgaagacctt gaaagctgct ttttcaagtg tcagtancgg aacgttctgt 420

caatcgggga aagtttttgg tgacaagacc tggngatatc agantgtaag cgcatattac 480

ataatcctgt gaaaaaagat ncctgcantg gnaaggnttc cgcgttnatc aatcctacnc 540

aaaattgaat cgggtcccct aaaggaaccc ccgaaaaggg cttgccgttc ccaatggggt 600

tacac 605

<210> 3898
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-E9

<400> 3898

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aatgatgatg gagactagag atccagctat taagcttttc ggtatgaaaa tccctttttcc 120

gtcggttttt gaatcggcag ttacggtgga ggatgacgaa gaagatgact ggagcggcgg 180

agatgacaaa tcaccagaga aggtaactcc agagttatca gataagaaca acaacaactg 240

taacgacaac agttttaaca attcgaaacc cgaaaccttg gacaaagagg aagcgacatc 300

aactgatcag atagagagta gtgacacgcc tgaggataat cagcagacga cacctgatgg 360

taaaacccta aagaaaccga ctaagattct accgtgtccg agatgcaaaa gcatggagac 420

caagttctgt tattacaaca actacaacat taa 453

<210> 3899
<211> 515
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-069-Q1-E1-A3

<400> 3899

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ccctgaggga agtggtaaag tcaactggaa aggagttgct tattacaata gattgattga 120

ttacatggtt caaaaaggga ttacacctta tgctaatctg taccactacg atcttccatt 180

ggctttggaa aacaagtata aaggcttgct tggtagacaa gtagtgaaag attttgcgga 240

ttacgctgag ttttgttaca agacatttgg tgatagagtg aaaaattgga tgacgttcaa 300

cgagccgcgt gtggtaagct gctttaggtt atgataatgg tattttcgca ccgggtagat 360

gctcaaaagc atttggaaat ttgcactgaa ggaaactccg cgacagngcc tcatantacc 420

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aantttggna annttttaaa tttcctttgg gaaan 515

<210> 3900
<211> 449
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-B5

<400> 3900

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gaaaaaccca tttctcnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120

nnnnnnnnnn ggtgtggatt tgaggcaagt ggtggctgga atactcacca ttaccatgtt 180

tgtgatgctt ggacaaatgc ttcatagaga ttactttgat gctgttcagg anaaagttca 240

nggagatgca catgatattg aattccatgg atcaaaagta gctgttgaan atggacttgt 300

tagagccttt gaggctggga ctaaagggcc ttggatggaa gatagtcatg aactcaaacc 360

ttgttggtca atttctcaat ctgatgaagc ggtatcgtca aaggggtacn ttacnattcg 420

ccttaacaaa tnggtccctg aactacaat 449

<210> 3901
<211> 456
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-B9

<400> 3901

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ntcgaggaga aaaaagaaaa 120

attggagaaa taatttaact ggttctcgga gaatctaggg ttctttttag ccacgccttg 180

ctgatctcct tcgtgaattc gattccgatt ctcacctggt cttttgtggc ctaaagctca 240

taagtttatg ctagtgcaag aagttatata ggaatgacat attagattta caatgatgga 300

agtggggttc tctcttattc agtggttgat caagttctgg tgctgacagt ccgtttatat 360

ttggatggct tgtaactgga tctgttggcc ttctggctgt tatctacaca tttcttaaat 420

ggcaagaaaa aaacttcttt aaattgggtt aaagct 456

<210> 3902
<211> 406
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-C1

<400> 3902

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ctggggcttc tttttctcat aagcattgtc gtctcttcga caananccgt cnatgatccn 120

gtgtgcccaa cgacgtccaa actaagccga gcaagtttcc ctaatgggtt tgtgtttggc 180

acagctactg ctgcgtttca ggttgaangt gcaattaatg aaacttgtcg tggacctgct 240

ctangggata tcttctgtaa gagaaatcca nanagatgta gtggccacaa cgccnatgtg 300

gccgttgatt tcttccatcg ttataaggaa gatattcanc taatgaagaa tctanacaca 360

agacgcattc agactcccaa tccgcaaggt caagaatatt tccnca 406

<210> 3903
<211> 453
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-C11

<400> 3903

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnng gatagtggaa gcttcccatt tgtaggagct 240

ctgcattcaa aatcacgttc gtctcctctg ttatcagttt gccttgttct cgtgggagca 300

tgccttctca ttggttatgc ttacagtggt ccaggtatgt tcaaaagtat cagagaagtc 360

agcaagatta caggtgacta ttcttgcaca gcagaagttc aaagagccat tcctattctt 420

aagagtgcgt atgggagata gcatgcgcaa agt 453

<210> 3904
<211> 409
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-C12

<400> 3904

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cagtgtcttt tgatacgtta caccagccag gttatccgtg acatggccaa ccacggtcaa 180

tctggagaac gtccgttcta tgaatttttg gagagttgcc tgcgccataa ggcagaaatg 240

gtgatccttg aggctgccag ggcaattact gagcttgatg gtgtgacaag ccgaagaact 300

gactccagca atcactgttc ttcagctctt tttgagttcc cccagaccag tgttgagatt 360

tgccgctgtc cggactctga acaaggttgc aatgactcat cctatggct 409

<210> 3905
<211> 412
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-C3

<400> 3905

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cgcatcaatt cgtgattcaa ggatacagct tagcgaaagg gatgggtata gggaagcaca 180

tagcgagtga taatttctcc gtcggaggtt atcagtgggg gatcttcttc tacccggacg 240

gtaagaatcc ggaggataat tcgtcgtacg tctctgtttt tancgcattg gccantgaag 300

gaaccgaagt tagggcgctt ttcgagctan ctcttgttga ccaaagtgga aaggggaaac 360

ataaggttca taaccatttt gaacggtcac tccaaggggg gccctaaaaa ac 412

<210> 3906
<211> 408
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-C7

<400> 3906

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnngaa cgatatagta 120

cctgaaccct agcggaggaa aatcaaaaat tgtctaggag aaacaaacag agatatcttt 180

ctttcttttt atcagtgggg aaaaaaaatg cagaatccga gactgannnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ctctctttac 300

catcctggtg ttttggctcc tcctcagtta gagcctgttc caagtggaaa ccttcctcct 360

ggttttgatc ccaagtactt gccgtagcgt gtatgttgga aacatcca 408

<210> 3907
<211> 414
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-D1

<400> 3907

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ccgacgtcac tctccggtgg cttccatatc tttctccctt aagcaaccac caccgcaacc 120

accaagaacc tcctgagagt cctcctgacc tccgccgccc ggagaaatct attggnnnnn 180

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnntaa aacccctctt aagattaatc 240

cactcaaggg tttaaccaat cgctcttctg tgtctcctct tgttcaatca gaggtttcga 300

gtaaagtttc ttcctttggc tcctctctag catccaagct acgtttgtcc agcaagnnnn 360

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngttgaaga aaccaaccaa tttc 414

<210> 3908
<211> 423
<212> DNA
<213> Arabidopsis thaliana

<223> Clone ID: LIB22-068-Q1-E1-D11

<400> 3908

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aaatggatgt gtgccaatgt atgctcagat caaagctgga gaactcattg agcaaccaat 120

ctggaaaact gcagagctca taaaacagag caaatccaat acgagtgatg aatatgtacg 180

ctcctttatc gacttccaag agctgcatca caaagatgga atcaatgccg gtacaggagt 240

gaccggattc acggactggc gatacttggg gcattccacg attgattttg gatggggagg 300

acctgtgacg gttttgccac tatcaaacaa gttgcttgga agcatggaac catgtttttt 360

cttgccatat tctactgatg ctgcagctgg aagcaagaaa gacagtgggt ttaagggttt 420

ggg 423

<210> 3909
<211> 410
<212> DNA
<213> Arabidopsis thaliana

<223> unsure at all n locations
<223> Clone ID: LIB22-068-Q1-E1-D12

<400> 3909

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ggcctaatcg acgaagccaa ggagcagatt ggagagagca ctaagaaaga agccgaggac 120

gaagatgaat ctgaagaatc ttcttcaaga ttcgggttta ggaagttctt gcgcagcaaa 180

gtggaaggcg ccatcgagtc tcgagggttt cacattggag ggaacaagaa ggatgaagat 240

gaggcggaag aaatcgagac taaggagatt gagcttgaag acggagaaac gatccatgcc 300